

Columbia University
Bulletin of Information



BARNARD COLLEGE

ANNOUNCEMENT

1954-1955


PAF

7

November 1954

CHANGES IN THE ANNOUNCEMENT FOR 1954-1955
Spring Term

- ENGLISH 8 Writing Non-Fiction, will be given Th 7-9 instead of ~~MW F at 11~~ W 11
- ENGLISH 22 Voice and Diction. Section II withdrawn.
- FRENCH 8 Masterpieces of Literature, will be given for 3 points only.
- FRENCH 4 Intermediate Course, new section IV, M W F at 11
- FRENCH 126 Contemporary French Poetry, will be given Wednesday 4:35 to 6:15 instead of T Th at 9.
- GERMAN Mrs. Marga Edwards will be on leave for the spring session.
- GERMAN 4 Intermediate Course, will be taught by Mr. Willy Schumann of Columbia University.
- GERMAN 8 Advanced Translation, will be taught by Mr. Willy Schumann.
- GERMAN 10 Practice Course, will have individual conferences for the third point instead of Th. at 1
- GERMAN 28 The Literature of the 20th Century, will be taught by Dr. Sakrawa.
- ITALIAN 6 Italian Conversation, will be given M W at 12. Dr. Czoniczer.
- ITALIAN 20 Dante, Petrarca, Boccaccio will be given M W at 10 instead of T 4-6. (Exam group 2).
- MUSIC*24 History of Music, will be given T Th at 11 and Th at 1 instead of M W F at 9.
- PHILOSOPHY 22 Ethics, will be given M W F at 2 instead of T Th 9:10 to 10:25. (Exam group 5)
- PHILOSOPHY 68 British Philosophy was given in fall term as R68 and will not be given in spring term.
- SOCIOLOGY 39 The Sociology of Work, will be given as R39, M W F at 3. Professor Barber.
- SOCIOLOGY 42 Social Problems and Social Movements, will not be given.
- SOCIOLOGY*134 Recent Trends in Family Research, will not be given.
- ZOOLOGY 8 Biology of the Vertebrates, will not be given.
- ZOOLOGY 152 Vertebrate Physiology will be given M W F 11 (Lectures) MW 2-5 (Lab.) 6 points. Admission only by written permission of Professor Deyrup. As prerequisites, Zoology 1-2, organic chemistry, and physics strongly recommended. (Exam group 3).
- Professor Hodgson will not participate in the teaching of Zoology 62 and 72.



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BARNARD COLLEGE

THE UNDERGRADUATE COLLEGE
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Columbia University

NEW YORK

1954-1955



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PROFESSOR BOORSE	² PROFESSOR SAULNIER
PROFESSOR DOWNES	¹ PROFESSOR YOUTZ
PROFESSOR KOUWENHOVEN	DEAN PEARDON (<i>ex officio</i>)

Committee on Instruction

DEAN PEARDON, *Chairman*

PROFESSOR BAILEY	PROFESSOR MORRISON
PROFESSOR BOORSE	PROFESSOR RITCHIE
PROFESSOR DOWNES	¹ PROFESSOR YOUTZ
PROFESSOR HARRINGTON	THE PRESIDENT (<i>ex officio</i>)
PROFESSOR HELD	DEAN MCGUIRE (<i>ex officio</i>)
MISS GIDDINGS (<i>ex officio</i>)	

Committee on Programs and Standing

DEAN MCGUIRE, *Chairman*

PROFESSOR GILLIM	MISS CARLSON (<i>ex officio</i>)
PROFESSOR GORBMAN	MISS FOX (<i>ex officio</i>)
² PROFESSOR HOOK	MISS GIDDINGS (<i>ex officio</i>)
DR. ALTSCHUL (<i>ex officio</i>)	MISS MCCANN (<i>ex officio</i>)
PROFESSOR BYRAM (<i>ex officio</i>)	PROFESSOR STABENAU (<i>ex officio</i>)
DEAN PEARDON (<i>ex officio</i>)	

COMMITTEES APPOINTED BY THE COMMITTEE ON INSTRUCTION

Committee on Admissions

MISS MCCANN, *Chairman*

DR. ALTSCHUL	PROFESSOR WENZEL
PROFESSOR BOVÉ	MRS. DAYTON (<i>ex officio</i>)
PROFESSOR GILLIM	MISS PALMER (<i>ex officio</i>)
DEAN MCGUIRE (<i>ex officio</i>)	

¹ Absent on leave, Winter Session.

² Absent on leave, 1954-55.

*Committee on the Foreign Language Requirement*PROFESSOR TILTON, *Chairman*

PROFESSOR BOVÉ

MRS. GARCÍA-LORCA

PROFESSOR BREUNIG

PROFESSOR KING

PROFESSOR DAY

PROFESSOR STABENAU

DEAN MCGUIRE (*ex officio*)*Committee on Honors*DEAN PEARDON, *Chairman (ex officio)*

PROFESSOR BYRAM

PROFESSOR KOMAROVSKY

PROFESSOR KING

PROFESSOR ROSENBERG

*Committee on the Library*DEAN PEARDON, *Chairman*

PROFESSOR BOORSE

PROFESSOR GILLIM

PROFESSOR GREET

*Committee on Scholarships*DEAN MCGUIRE, *Chairman*

PROFESSOR BOVÉ

MISS BENSEN (*ex officio*)

PROFESSOR MEYER

MISS WRIGHT (*ex officio*)

MISS NELBACH

CLASS ADVISERS (*ex officiis*)*Committee on Space and Hours*DEAN PEARDON, *Chairman*

PROFESSOR LAWRENCE

PROFESSOR SHARP

PROFESSOR LORCH

¹PROFESSOR YOUTZ²PROFESSOR RAUCHMISS GIDDINGS (*ex officio*)DEAN MCGUIRE (*ex officio*)*Committee on Student Affairs*THE PRESIDENT, *Chairman (ex officio)*

PROFESSOR FINAN

MISS CARLSON (*ex officio*)

PROFESSOR HARRINGTON

PROFESSOR STABENAU (*ex officio*)

PROFESSOR MORRISON

MISS WRIGHT (*ex officio*)DR. ALTSCHUL (*ex officio*)MRS. MICHELFELDER (*ex officio*)PROFESSOR BYRAM (*ex officio*)DEAN MCGUIRE (*ex officio*)MISS PALMER (*ex officio*)¹ Absent on leave, Winter Session.² Absent on leave, 1954-55.

OFFICERS OF THE ASSOCIATE ALUMNAE OF BARNARD COLLEGE FOR 1954-1955

Office: MILBANK HALL, BARNARD COLLEGE

<i>President</i>	MRS. FREDERICK WOODBRIDGE (Catherine Baldwin '27)
<i>1st Vice-President</i>	MISS FRANCES M. SMITH '32
<i>2nd Vice-President</i>	MRS. BERTHOLD COMEAU (Elizabeth Gaw '30)
<i>Treasurer</i>	MISS DOROTHY FUNCK '29
<i>Secretary</i>	MRS. DONALD READ (Dorothy Kramm '32)
<i>Executive Secretary</i>	MISS MARY A. BLISS '25

Directors

MRS. PHILIP ALLEN (Dorothy Dillon '50)	MRS. HERBERT C. MECKE (Margaret Mather '49)
MISS NONA BALAKIAN '42	MRS. ROBERT L. MOORE (Regina Reilly '47)
MRS. HOMER JOY (Mary Bonne '30)	MISS LOUISE ODENCRANTZ '07
MRS. G. PHILIP LAWRENCE (Marjorie Herrmann '19)	MISS ROSE PATTON '29
MRS. DANIEL LINDSAY (Mary Rodgers '22)	MRS. JOHN SARGENT (Mary Maloney '40)
MRS. JOHN McDOWELL (Elizabeth Hopkins '32)	MRS. JOHN STEVENS (Anne McLaren '36)
	MRS. MARK VAN DOREN (Dorothy Graffe '18)

Alumnae Trustees

MRS. DANIEL CALLAHAN (Marjorie Turner '26)	MRS. WILLIAM P. WHITE (Marian Churchill '29)
MRS. WILLIAM GOSSETT (Elizabeth Hughes '29)	MRS. FREDERICK WOODBRIDGE (Catherine Baldwin '27)

Presidents of Alumnae Clubs

CALIFORNIA

- Los Angeles County* — MISS HENRIETTA SWOPE '25, 660 N. Madison Avenue, Pasadena 4
San Francisco Bay Area — MISS EDYTH FREDERICKS '06, 1870 Pacific Avenue, San Francisco 9

CONNECTICUT

- Fairfield County* — MRS. CARL S. HARRIS (Lucile Pfifferling '39)
 R.F.D. 1, Pound Ridge, New York
Hartford County —

DISTRICT OF COLUMBIA

- Washington, D. C.* — MRS. ALTON MEISTER (Lee Garten '43), 5804 Wilmet Road, Bethesda 14, Maryland.

ILLINOIS

Chicago — MRS. DANIEL J. PACHMAN (Vivian Futter '33), 8133
South Jeffery Avenue, Chicago 17

MARYLAND

Baltimore — MRS. FREDERICK SOBEL (Joan Borowik '47), 1120
Ramblewood Road, Baltimore 12

MASSACHUSETTS

Boston — MISS DIANE HOWELL '44, 1200 Massachusetts Avenue,
Cambridge 38

MICHIGAN

Detroit — MRS. C. J. HOLT (Constance Bright '42), 8283 Pinehurst,
Detroit 4

NEW JERSEY

West Englewood — MRS. HENRY T. UPDEGROVE, JR. (Grace Reining
'30), 1076 Sussex Road, West Englewood

NEW YORK

Brooklyn — MISS RITA RASMUSSEN '48, 6941 Ridge Boulevard,
Brooklyn 9

Capital District — MRS. PIERRE C. LACOMBE (Barbara Denneen
'39), Woodlawn Avenue, R.D. 1, Rensselaer

New York — MISS FLORRIE HOLZWASSER '11, Barnard College Club,
140 East 63rd Street, New York 21

Westchester — MRS. JOHN SARGENT (Mary Maloney '40), 130
Grandview Boulevard, Tuckahoe

Western New York — MRS. MAURICE BRICK (Merle Noethen '38),
227 Capen Boulevard, Eggertsville 23

OHIO

Cleveland — MRS. DAVID WARSHAWSKY (Florence Haber '23),
2889 Torrington Road, Cleveland 22

PENNSYLVANIA

Philadelphia — MRS. CHARLES G. STEHLE (Katharine Browne '25),
Rydal

Pittsburgh — MISS HATTIE SONDHEIM '14, 5735 Ellsworth Avenue,
Pittsburgh 32

TEXAS

Dallas — DR. MARY JENNINGS '21, 3224 Caruth, Dallas 5

Houston — MRS. MELVIN F. FINCKE (Elizabeth Jervis '32), 910
Sul Ross

WASHINGTON

State-of-Washington — MRS. HAROLD BLOOMEY (Florence Stoll
'24), 2124 East 80th Street, Seattle 5

Academic Calendar
for 1954 - 1955

ACADEMIC CALENDAR FOR 1954-55

- Aug. 30 Monday. Freshman interviews begin.
- Sept. 20 Monday. Foreign language tests.
- Sept. 20 Monday through Sept. 22, Wednesday. Registration in person for all students. The privilege of later registration may be granted on payment of a fee of \$15.
- Sept. 23 Thursday. Winter Session, sixty-sixth year begins. Classes begin, 9 a.m. Opening exercises, 1 p.m.
- Oct. 31 Sunday. Third Bicentennial Convocation.
- Nov. 2 Tuesday. Election Day. Holiday.
- Nov. 23 Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
- Nov. 25 Thursday, through Nov. 28, Sunday. Thanksgiving holidays.
- Dec. 1 Wednesday. Vocational Conference.
- Dec. 22 Wednesday, through Jan. 4, Tuesday. Christmas holidays.
- Jan. 16 Sunday. Annual Commemoration Service in St. Paul's Chapel.
- Jan. 17 Monday. Mid-year examinations begin.
- Jan. 31 Monday and Feb. 1, Tuesday. Registration for students entering in February. The privilege of later registration may be granted on payment of a fee of \$15.
- Feb. 2 Wednesday. Classes begin.
- Feb. 22 Tuesday. Washington's Birthday. Holiday.
- March 1 Tuesday. Last day for filing applications for non-competitive scholarships, grants-in-aid, and residence grants.
- April 3 Sunday, through April 10, Sunday. Easter holidays.
- May 9 Monday, through May 14, Saturday, seniors excused from class attendance.
- May 10 Tuesday, through May 12, Thursday. Major examinations.
- May 16 Monday. Final examinations begin.
- May 29 Sunday. Baccalaureate Service.
- May 30 Monday. Memorial Day. Holiday.
- June 1 Wednesday. Conferring of degrees.
- July 4 Monday. Independence Day. Holiday.
- July 5 Tuesday. Fifty-sixth Summer Session of Columbia University begins.
- Aug. 12 Friday, Fifty-sixth Summer Session ends.
- Sept. 6 Tuesday. Freshmen interviews begin.
- Sept. 26 Monday through Sept. 28, Wednesday. Registration in person for all students. The privilege of later registration may be granted on payment of a fee of \$15.
- Sept. 29 Thursday. Winter Session, sixty-seventh year, begins. Classes begin.

SEPTEMBER, 1954

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CALENDAR

FOR 1954-1955

OCTOBER, 1954

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FEBRUARY, 1955

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SEPTEMBER, 1955

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HIGHLIGHTS IN BARNARD'S HISTORY

Barnard College is the women's undergraduate college of liberal arts and sciences in Columbia University, and its graduates receive from Columbia the degree of Bachelor of Arts. Although it is closely allied with Columbia educationally, Barnard has remained financially independent, with its own Faculty and Board of Trustees.

Established in 1889 under a charter granted by the State of New York, the College was named for Frederick A. P. Barnard, President of Columbia from 1865 to 1888, who had been for years an ardent advocate of the admission of women to Columbia. In the fall of 1889, seven instructors were selected from the teaching staff of Columbia to teach a student body composed of fourteen regular students and twenty-two special students. At that time the "campus" consisted of a rented building at 343 Madison Avenue. In 1897, the College moved to its present site on Broadway, just west of the main buildings of Columbia.

Barnard was formally incorporated into the educational system of the University in 1900. Barnard's President, who is appointed by the Trustees of Barnard College with the advice and consent of the President of the University, is responsible for the administration of the College. Professors are nominated by the President of the College and appointed by the Board of Trustees of the College. Their appointment is also approved by the University's Board of Trustees and they rank as professors of the University. The President of the University is *ex officio* a Trustee of Barnard College.

Currently, the College owns equipment, buildings and grounds with a book value of \$4,500,000 and holds endowment funds providing a net income of about \$340,000. Nearly twelve hundred girls attend classes at the College annually, coming from every part of the United States and from many foreign nations. An estimated two-thirds of the students live in New York and surrounding areas.

Admission, Registration, Fees,
and Faculty Regulations

ADMISSION

The Committee on Admissions selects for admission those candidates whose credentials show evidence of good character, health, academic ability, and intellectual interest. In selecting the entering class the Committee attaches particular importance to the school record, the principal's recommendations, the personal interview, and the results of the examinations of the College Entrance Examination Board. The Director of Admissions welcomes an opportunity to meet candidates, their parents, and school advisers.

In choosing its students, the College keeps in mind the desirability of a student body which represents a wide range of schools and regions in the United States and foreign countries.

A student who has fulfilled the preliminary qualifications as a candidate for a degree is enrolled as a matriculated student of Columbia University and is considered a student of the University as long as her registration is valid. No student may be registered simultaneously in any other school or college, even of the University itself, without the consent of the President of the College.

In exceptional circumstances an applicant may be admitted to Barnard as a nonmatriculated student, with permission to attend courses for which she is qualified, but not as a candidate for the degree. (See also Admission as Special Students, p. 22.)

Application for admission should be made before February 15th of the year of entrance. It is desirable however to apply by the end of the junior year in secondary school, or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions, Barnard College. A \$10 fee must accompany each application. *This fee is not refundable in the event of rejection or withdrawal.*

QUALIFICATIONS FOR ADMISSION TO FRESHMAN CLASS. Candidates for admission to the freshman class, admitted in September of each academic year, must be at least fifteen years of age and must submit the following credentials:

1. Evidence of good character, personality and promise. This is obtained from confidential reports from the applicant's secondary school principal and teachers, and, if possible, through a personal interview with a member of the staff of the Office of Admissions.
2. Evidence of good preparation and intellectual ability. Good preparation implies graduation from an approved secondary school, or equivalent education, representing a four-year course of study. Such a course ordinarily includes four years of English, three years of one foreign language and two years of another, a year of algebra, and a year of plane geometry. The remainder of the course

should consist of history, science, additional languages, mathematics, music, or art. For premedical students additional work in mathematics and German is advised. Pre-engineering students should offer three years of social studies, two years of French or German, mathematics through solid geometry and trigonometry, physics, and chemistry.

- 3. Evidence of adequate health. A health history and the report of a health examination must be submitted to the Office of Admissions as soon as the applicant is accepted.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern, but whose records give evidence of genuine intellectual ability and interest.

Intellectual ability is tested by means of the College Entrance Examination Board Scholastic Aptitude Test and three Achievement Tests. *Every candidate for admission to the freshman class is required to take these tests in her senior year in secondary school, the December or January series for January graduates and the March series for June graduates. June graduates may, if they wish, take the Scholastic Aptitude Test in January, but the Achievement Tests should be taken in March.*

THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS. The College Entrance Examination Board will administer the following five series of tests in 1954-55:

Saturday, December 4, 1954	Saturday, March 12, 1955
Saturday, January 8, 1955	Saturday, May 21, 1955
Wednesday, August 10, 1955	

Those required for admission to Barnard are:

Scholastic Aptitude Test (including a verbal and mathematical section) 8:45 a.m.

Three Achievement Tests (one hour each) 1:45 p.m.

(1) English Composition; (2) A choice of French, German, Greek, Italian, Latin or Spanish; (3) A choice of Social Studies, Biology, Chemistry, Physics, Intermediate Mathematics, or Advanced Mathematics.

Candidates should write directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey, for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for the filing of applications, and lists of examination centers. When requesting the application forms, candidates should state whether they wish to take the May, August, December, January or March tests.

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii,

Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, P. O. Box 9896, Los Feliz Station, Los Angeles 27, California.

In order to facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Los Angeles, California, for candidates outside the United States, Alaska, Hawaii, the Canal Zone, Canada, Mexico, and the West Indies is *seven weeks* before the date of the examination; for all other candidates the closing date is *three weeks* before the date of the examination. A penalty fee of \$3 to accompany the application will be charged for applications received later than the normal closing date. *No applications received in Princeton or Los Angeles later than one week before the examination date will be considered. Candidates may not register for the tests at the examination centers.* Each application should be accompanied by the appropriate examination fee:

Scholastic Aptitude Test alone.....	\$ 6.00
One, two, or three Achievement Tests.....	8.00
Scholastic Aptitude and one, two, or three Achievement Tests	12.00

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges will, in turn, notify the candidates of the action taken upon their applications for admission. Candidates will not receive reports of their tests from the Board.

ADMISSION TO ADVANCED STANDING. Candidates who are admitted to advanced standing in September or February, must have satisfactorily completed at least one year of work at an acceptable college, or foreign institution of equivalent grade. In general, a candidate with a good record, transferring to Barnard from a college of equal standing will receive at Barnard a year's credit for a year's work at the institution from which she came.

A candidate for admission with advanced standing from a junior college may be asked to take the College Transfer Test. No definite credit for her junior college work can be assigned until she has had an opportunity to establish a satisfactory record at Barnard.

With her formal application each candidate should send the Committee on Admissions the following: the secondary school report; an official transcript of her college record; a catalogue of her college in which the courses she has taken are clearly marked. As soon as possible after acceptance, each transfer is given a tentative estimate of the time necessary to complete the requirements for the degree. Final action depends upon the receipt of a statement of honorable dismissal, the certificate of good moral character from an authorized representative of her college, and the health certificate.

All records should be received by the Committee on Admissions by July 1 for admission in September, and by December 1 for admission in February; otherwise action may be delayed until just before the opening of College. *If all credentials are not in the hands of the Committee on Admissions by Friday, September 17, 1954, the student's registration may be deferred until Friday, October 1, 1954, thereby incurring an additional fee of \$15 for lateness.*

No applicant may enter the senior class as a candidate for a degree after October 15 in any year, and no student will receive the degree who has been a full-time matriculated student for less than two full semesters at Barnard College. It is difficult, however, for a student to secure the degree in one year at Barnard (See CREDIT, p. 30). In order to do so, she must maintain an average of at least 2.50 (half-way between B and C).

ADMISSION AS SPECIAL STUDENTS. Women who wish to make a serious study of some subject or group of subjects *without working toward a degree* may, in some cases, enter Barnard as nonmatriculants. They need not pass formal entrance examinations, but they must submit evidence of good character and proof that they are qualified scholastically to take the courses of their choice.

No matriculated student who has become deficient in her studies may be re-admitted as a nonmatriculated student within ten months of leaving college. No applicant who has been rejected may re-apply as a nonmatriculated student.

Special students are governed by the same attendance, course examination, health, proficiency, and deficiency regulations as matriculated students. They are entitled to a formal statement testifying to the courses they have taken. After satisfactory completion of thirty points of work they may be transferred to a matriculated basis as candidates for the degree.

REGISTRATION

Before attending any classes each student must comply with the regulations regarding registration and the payment of fees. Registration is not complete until all fees, including residence hall fees, are paid.

Before the opening of the winter or spring session, freshmen and transfers will be given appointments for the purpose of planning their programs. Both old and new students must register in 1954 on one of the three following days:

Monday, September 20 — A-L (day students only)

Tuesday, September 21 — M-Z (day students only)

Wednesday, September 22 — All resident students

Failure to register on the proper day will entail a late registration fee of \$15.

Fees, including fees for room and board for resident students, accompanied by the stub of the bill must be in the the Bursar's Office before the opening day of the term. If mailed to the Bursar, envelopes must be postmarked September 15, 1954, or earlier, January 15, 1955, or earlier. Students admitted for the winter session after September 10 must pay their bills not later than September 22.

Failure to mail remittances on time will entail a late registration fee of \$15.

WITHDRAWAL

Any student in good academic standing, not subject to discipline, may withdraw from the College with an honorable discharge. Written notification of withdrawal must be sent to the Office of the Registrar. Students under twenty-one years of age must furnish written assent of a parent or guardian. (See REFUNDS, page 25.)

F E E S

Tuition and other student fees do not meet the entire cost of education. They make up about 60 per cent of the cost, and the balance must be provided by annual gifts from alumnae and other friends of the College and by income from endowment. Every effort is made to keep fees at a minimum by economy of operation and by increasing both endowment and current gifts.

SUMMARY OF FEES

		Each Session	Academic Year
I.	Full time non-resident students		
A.	Registration	\$ 10.00	\$ 20.00
	Tuition	390.00	780.00
	Student Activity Fee	6.50	13.00
	Medical Fee	5.00	10.00
		<u>\$411.50</u>	<u>\$ 823.00</u>
B.	Optional additional Medical Fee to participate in Columbia University Student Medical Plan*	5.00	10.00
		<u>\$416.50</u>	<u>\$ 833.00</u>
II.	Full-time resident students		
	Registration	\$ 10.00	\$ 20.00
	Tuition	390.00	780.00
	Room Rental	185.00	370.00
	Board	200.00	400.00
	Laundry and Linen Fee.....	6.50	13.00
	Student Activity Fee.....	6.50	13.00
	Medical Fee	10.00	20.00
		<u>\$808.00</u>	<u>\$1,616.00</u>

* This additional fee is required for all non-resident students not living with parents or relatives.

III. Other students

Matriculated students taking less than a full schedule (nine points or less) and all non-matriculated students pay \$36 per point for academic work and \$5 for physical education, if this is required.

Matriculated students are also required to pay the registration, student activity, and medical fees each session.

Non-matriculated students must pay the registration and medical fees each session.

IV. Deposits

All students: In order to obtain a place on the college roll for the ensuing winter or spring session, students who are currently enrolled must pay a deposit of \$50 on or before May 15 and December 1 respectively. Applicants for admission or readmission must make this advance payment at the time they signify their acceptance of admission or readmission to the College. The deposit of \$50 will be applied to the tuition bill of the winter or spring session, as the case may be. *The entire deposit is forfeited in case of a student's failure to enter, or of her withdrawal.*

Resident students: A room deposit of \$50 is payable by May 15 to secure the assignment of a room. One half of this deposit, (\$25) will be applied to the rent bill of the winter session and the remainder to the rent bill of the spring session. *The entire deposit is forfeited in case of withdrawal.*

Deposits for the use of apparatus and material required in:

Chemistry 23	\$10
Chemistry 24, 26, 41, 42, 63, 64, 107, 137, 138, each course	\$15

V. Payment of Fees

All fees are payable semiannually in advance (see instructions under Registration), and no reduction is made for late registration. Registration is not complete until *all* fees are paid, including residence hall fees. *Failure to register or pay fees on time imposes automatically the statutory charge of \$15 for late registration.*

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

Checks or money orders in payment of all fees, including those for charges in the residence halls, should be in U. S. currency and should be made payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due. No check which is made out for more than the correct amount will be accepted.

Every financial obligation to the College must be met by January 1 of the winter session or by May 1 of the spring session, if the student is to be permitted to take her examinations and receive credit for the session's work.

The privileges of the College are not available to any student who is delinquent in the payment of her fees.

(The application fee of \$10, payable when application for admission is filed, is not credited on the bill and is never refunded. It should not be confused with the registration fee, payable each session.)

VI. Deferred Payment.

In special cases, upon payment of a nominal fee, permission may be obtained from the Bursar to defer the payment of approximately one-half of the total bill for the session until November 15 or March 15, provided that such permission is granted before August 15 or December 15 (for the spring session). *Any application for the privilege of deferred payment made after August 15 or December 15 will be considered late payment and as such will be subject to a late payment fee of \$5.* Where the privilege of deferred payment has been granted, each payment must be made on the due date or an additional fee of \$5 for late payment will be incurred. In case of withdrawal the entire bill for tuition and residence will become due immediately.

VII. Refunds

As contracts with instructors and provisions for education and residence are made by the College in advance for the entire year, no refunds of registration, tuition or rent can be made after these fees become due, except in cases of extreme hardship, of which the College shall be the sole judge. Refunds for board may be made at the discretion of the College and will be computed on a pro rata basis from the date of withdrawal to the end of the session. Application for the refund must be made in writing at the time of withdrawal to the Director of the Residence Halls. No refunds will be made for special diets but the Director of Food Services will make every effort to cater to the needs of individual students.

VIII. Additional Charges

Tuition for courses in applied music:

For special fee in each case, see departmental announcement of course.

Tuition for technical courses in fine arts:

For special fee in each case, see announcement of the School of General Studies.

Tuition for General Studies courses:

For special fee in each case, see announcement of the School of General Studies.

Late registration for academic work (see page 22) \$15.00

Late registration for Physical Education 5.00

Privilege of filing program late 10.00

For students in college who fail to file their programs for the coming session within the period announced for that purpose. Students in college who defer filing programs until after Commencement are fined \$20.

Late change of program 5.00

Any change in program initiated by any student and made after the period announced for that purpose.

Examinations, payable in each case before the examination is held:

For each deficiency examination \$ 5.00

For each special examination 10.00

(A special or deficiency examination is one taken at any time other than at the conclusion of a course actually attended.)

For late application for any such examination or for the foreign language test 5.00

For the degree 20.00

This fee is never refunded. It must be paid on or before April 15 by candidates for the degree in June or October and by January 1 by candidates for the degree in February.

IX. Other Expenses.

There are other miscellaneous expenses not payable to the College for which the student should plan. These include a gymnasium costume, approximately \$15, Student Government dues of \$2.00 for resident students, and a minimum of \$40 per year for textbooks. Non-resident students should estimate a minimum \$100 (\$3.00 weekly) for lunches if they plan to buy them in the cafeteria or snack bar. Individual estimates of expense should also include transportation, clothes, supplies, and amusements.

Medical Plan. Barnard College has on its staff a full-time physician, who is in charge of all matters affecting the health of students, a part-time psychiatrist, and two nurses. Medical examinations are required for freshmen and seniors. This medical service is available to all students and is covered by a \$5 fee payable each session by all students.

Resident students and non-resident students not living with family or relatives are required to pay an additional medical fee of \$5 each session. This allows them to participate in the Columbia University Student Medical Plan. Non-resident students living at home may also participate in this plan by paying the additional \$5 fee each session. While this is recommended, it is not required.

Participation in the CUSMP entitles the student to the following services during the winter and spring sessions:

- A. Columbia University Medical Office: Medical treatment for conditions not requiring bed care; surgical treatment for minor surgical conditions; consultation with the following specialists—dermatologist, otolaryngologist, gynecologist, orthopedist, neurologist, and psychiatrist; laboratory and X-ray studies as deemed advisable by the doctors;
Not provided: dental care, drugs, fitting and provision of glasses, house calls.
- B. Columbia University Infirmary: Bed care for ten days a semester will be provided without charge.
- C. St. Luke's Hospital: For more acute surgical and medical conditions requiring hospitalization, four days' ward care at St. Luke's Hospital will be available each semester. In practically all situations when additional bed care is needed, it can be spent in convalescence in the infirmary.

STUDENT HOSPITAL INSURANCE. Barnard students may join the Associated Hospital-United Medical Service plan for surgical and medical expense indemnity. Membership in this plan costs \$29.76 for twelve consecutive months beginning October 1, 1954. It entitles members to hospitalization and to the services of a surgeon and other medical facilities during hospitalization.

A student who is interested in joining this plan should secure an enrollment card from the Bursar, execute it, and return it before September 15, 1954 with a check made payable to Barnard College. Contracts will be sent to members by the Associated Hospital Service after October 1.

Foreign students who live outside the United States, are asked to join the Exchange Students Medical Expense Policy issued by the Institute of International Education, 1 East 67th Street, New York 21, N. Y.

FEES OF NEW YORK STATE SCHOLARS. Each State Scholar should file at the office of the Bursar *at the time of registration* the notice which she has received from Albany stating that a State Scholarship has been awarded to her. On the basis of this official notice she is entitled to a credit of \$175 a session.

A State Scholarship Certificate is then sent from Albany to the Bursar, who records all necessary information and forwards the certificate to its owner. This certificate need not be presented again at the Bursar's Office.

SAFEKEEPING OF STUDENTS' FUNDS. The Bursar of Columbia University in Room 310, University Hall, is prepared to receive the funds of Barnard College students for safekeeping, subject to printed regulations obtainable in the Bursar's Office.

Personal checks are not cashed by the University, nor is credit allowed, until money has actually been received from the bank on which the check is drawn. Students should provide themselves with travelers' checks to cover their immediate expenses.

PLACEMENT OFFICE. The Placement Office, maintained by the College for students and alumnae, provides vocational information, vocational-interest testing, counseling and placement services. Placements are made in business, education, government and other professional fields. In coöperation with the Advisory Vocational Committee of the Associate Alumnae and a student-faculty committee a program of vocational conferences is offered, giving students an opportunity to discuss specific fields of work with experts employed in their fields.

It is inadvisable to undertake part-time employment during the first semester in college, since it is difficult to gauge in advance the time required for individual study programs. By the second year a student with a good academic record and good health should be able to carry part-time jobs amounting to ten or twelve hours a week. As a rule, the best time for earning is during the summer months when try-out jobs related to the students' majors are available. No student can hope to earn all her college expenses, unless she takes a light program extending over a period of five or six years.

GENERAL REGULATIONS

ACADEMIC DISCIPLINE. The continuance of a student upon the rolls of the University, the receipt by her of academic credits, her graduation, and the conferring of any degree are strictly subject to the disciplinary powers of the University, which is free to cancel her registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President of the

University in such cases as he deems proper, and, subject to the reserve powers of the President of the University, is exercised by the President of Barnard College with regard to students at Barnard College.

RESIDENCE. All students not residing with their parents are required to live in Brooks Hall or Hewitt Hall unless they receive special permission to live off-campus. Approval of their living arrangements must be obtained from the Dean of Student Administration, the Class Adviser and the College Physician. Applications for permission, *accompanied by letters of authorization from parents or guardians*, should be made before August 15 or January 1. *Any change of residence at any time during the college year must be officially approved.*

ASSEMBLIES. College assemblies, and academic meetings at which attendance is required, are held on Tuesday at 1:10 o'clock. Assemblies, planned by a joint committee of the Faculty and Undergraduate Association, bring distinguished speakers to the College and provide a forum for the discussion of important topics. Students *must* keep this hour free from other engagements.

CLASS ADVISERS. Four members of the teaching staff serve as Class Advisers, giving guidance and counsel to members of the classes for which they are responsible. Class Advisers for the year 1954-55 are:

DR. LUCILLE H. ALTSCHUL, Adviser to the Class of 1958

MISS HELEN M. CARLSON, Adviser to the Class of 1957

PROFESSOR LOUISE STABENAU, Adviser to the Class of 1956

PROFESSOR MARIANNA BYRAM, Adviser to the Class of 1955

ELECTION OF COURSES. Freshman and sophomore programs must be approved by the student's Class Adviser. Junior and senior programs must have the approval of both the Major Adviser and the Class Adviser in order to coördinate the over-all selection of courses.

The following restrictions pertain to all programs: No less than 12 or more than 16 points may be taken per semester without the consent of the Class Adviser; a maximum of five courses in one semester may be elected; no more than four hours of class work, or its equivalent in laboratory work (i.e., seven hours of class and laboratory work combined) may be taken on the same day; courses must be taken for the credit value announced, except by permission of the Committee on Programs and Standing. No credit is given for a one-hour course unless taken in connection with another course which it supplements. No credit is allowed for a course elected on an optional or audit basis even though all work is completed, *unless the student within the first three weeks of the term, changes her registration to a credit basis by filing a change of program in the Office of the Registrar.*

CREDIT. Of the 120 points required for the degree, at least 30 must be taken while the student is registered in Barnard, and at least 15 must be taken during the senior year. In the major field a minimum of 12 points must be taken at Barnard. No courses other than those specified in the announcement may be taken without the consent of the Committee on Programs and Standing.

Columbia University courses are open to Barnard students, as follows:

Faculties of Political Science, Philosophy, and Pure Science: open to qualified seniors with the consent of the Executive Officer of the department concerned and the Class Adviser. A senior of unusual ability may request permission to elect two graduate courses in her major field to be counted toward the Bachelor's degree. A senior of high standing may register for graduate courses in partial fulfillment of the requirements for a higher degree under the following conditions:

1. the student must secure the approval of the appropriate Executive Officer at Barnard College;
2. the student must be in the last term of her senior year;
3. the student must be within 12 points of her Bachelor's degree;
4. the points to be used for graduate credit must be over and above the requirements for the Bachelor's degree.

Columbia College: for courses not listed in the Barnard announcement the approval of Dean McKnight of Columbia College must be obtained through the Office of the Barnard Registrar.

The School of General Studies: certain courses may be credited toward the degree, provided that they are approved by the Committee on Programs and Standing, and that a minimum grade of C is obtained in each course. Fees for General Studies courses are not included in the regular tuition, but are added to the Barnard College bill.

Teachers College: certain courses in education may be credited toward the degree provided that they are approved by the Dean of Student Administration and by the Registrar of Teachers College. Fees for these courses are not included in the regular tuition, but are added to the Barnard College bill.

SUMMER WORK CREDIT. The Committee on Programs and Standing must approve the election of summer session courses, if they are to be counted toward the degree. Unless the Committee gives special permission, any student whose average standing during the preceding academic year was below 2.50 will be restricted to 6 points of work for a six-weeks' session, or a proportionate number of points for a

longer session. Students whose average has fallen below 2.00 for the academic year will not be allowed to attend summer session.

To receive credit toward the degree the student must pass each course with a grade of C or better. Additional credit for high standing is not given for summer work. *Official transcripts of summer work must be submitted by November 1; otherwise no credit will be allowed.*

ACADEMIC REQUIREMENTS FOR THE A.B. DEGREE.

English A	6 points
Modern Living	2 points

A course designed to increase the student's knowledge of herself and of the problems she will meet in college and in the world.

Ability to read a foreign language at sight with ease. The student may meet this requirement by passing an examination in the language of her choice or by passing with a grade of not less than C minus an advanced course amounting to 6 points in the literature of that language taken *at Barnard*. The courses which will satisfy this requirement are:

French 7, 8; 9, 10; 21, 22; 23-24; 25, 26; 27, 28; 31, 32; 33, 34

German 25, 26; 27, 28; 30; 36; 45, 46

Greek 11, 12, 25, 26

Italian 15, 16, 17, 18

Latin 11, 12

Spanish 15-16; 15a-16a; 22, 23; 27, 28

The foreign language examinations are held in January, May, and September. Each student electing to take this examination must pass it before the beginning of her senior year. If the requirement is not satisfied by that time, the student is placed on probation, with a limited program, until such time as the requirement is met. After a student has satisfied all other degree requirements, she is permitted four additional trials of the test within the six-year time limit for working toward the degree.

One full-year course in a second foreign language, if the student has not had the equivalent (two years) in high school.

Two full-year courses in the humanities (literature, fine arts, music, philosophy, religion), one of which must be a course in literature to be studied *in the language in which it was originally written* 12 points

An advanced course in the literature of a foreign language taken at Barnard in fulfillment of the foreign language requirement may also be counted toward the humanities.

One full-year course in modern European or American history (History 1-2, 3-4, or 9-10), except when the Committee on Instruction gives permission for the substitution of another course in history 6 points

One full-year course devoted to the study of contemporary society
6 points

The following courses will satisfy this requirement:

Anthropology 8, 18	Psychology 37
Economics 1-2; 32	Religion 26
Geography 1-2; 15, 16	Sociology 1-2
Government 3, 4; 5, 6	

The following distribution should be observed: If Economics 1-2 or Geography 1-2, or a course in government, or sociology is elected, both terms must be taken. Any combination amounting to at least 6 points may be made of the other courses.

Two full-year courses in science, one in the physical sciences, one in the biological sciences 14 or 16 points

The first course must be a laboratory course in chemistry, geology, physics, botany, psychology, or zoölogy.

If the laboratory course has been taken in the field of the physical sciences (chemistry, geology or physics), the second year of science must be elected from mathematics, a survey of the biological sciences, experimental psychology, or botany or zoölogy, with or without laboratory, as the student chooses. If, on the other hand, the laboratory course has been taken in the field of the biological sciences (botany, psychology, or zoölogy), the second year must be taken in mathematics, or elementary chemistry, physics, or geology, with or without laboratory, as the student chooses.

A major consisting of not less than..... 28 points
of work in one subject and the passing of a major examination.

Electives 46 or 44 points

Required for the degree..... 120 points
and 8 credits in Physical Education

THE MAJOR. To insure some degree of concentration in a chosen field, each student is required to select a major subject before the end of her sophomore year. The student is given considerable freedom in selecting her courses, but she must take at least 28 points in her major subject and meet other specific requirements. Before graduation the student must pass a major examination designed to test her maturity in her major subject.

Students may major in:

American Civilization	Greek
Anthropology	History
Botany	Italian
British Civilization	Latin
Chemistry	Mathematics
Economics	Music
English	Natural Resources
Fine Arts	Philosophy
Foreign Areas Studies	Physics
French	Psychology
Geography	Religion
Geology	Sociology
German	Spanish
Government	Zoölogy

and such combinations as

Economics and Government, Economics and Sociology, Government and History, Government and Sociology, Greek and Latin, History and Philosophy, or a combination of two languages.

TIME LIMIT FOR WORKING TOWARD THE DEGREE. All requirements for the degree must be fulfilled by the candidate within six years from the time of her matriculation as a freshman at Barnard or elsewhere; within four and a half years from matriculation as a sophomore; within three years from matriculation as a junior; and within one and a half years from matriculation as a senior. If the requirements are not fulfilled within the time specified, credit for all points gained toward the degree is forfeited unless the Faculty directs otherwise.

ADDITIONAL CREDIT FOR HIGH STANDING. At the end of the winter and the spring sessions, additional credit for high standing is given as follows:

A semester average of 3.50 to 3.69 inclusive entitles the student to 1 point of extra credit, provided she has carried a program of at least 12 points, has satisfactorily completed all the work of the session, and has not received a report of *absent*, *incomplete*, or *deferred* in any course.

A semester average of 3.70 and above entitles the student to 2 points of extra credit provided the conditions set forth above have been met.

REQUIREMENTS FOR TRANSFER STUDENTS. Students transferring to Barnard from other colleges are subject to the regulations outlined above. The Class Adviser will determine the program of work in conference with the student. Maturity, intellectual interests, professional plans, and previous academic record are taken into consideration.

The specific English requirement may be fulfilled by passing a proficiency test. If the test is failed, *English 1, 2* must be taken during the student's first year here.

Thirty of the points counted toward the degree *must* be taken at Barnard, as well as a minimum of 12 points in the major field.

Students desiring to complete the work for the degree after a minimum of two terms at Barnard are required to maintain an average standing of 2.50 (half B and half C).

Work of D grade done elsewhere cannot count toward the Barnard degree, unless the student's over-all transfer average is 2.00 (C).

Qualified students who meet the standards required by the University Committee on Admissions may, after the completion of the required preliminary work at Barnard, transfer to the professional schools at Columbia.

CLASSIFICATION OF STUDENTS. Matriculated students are classified as follows:

Freshmen: those who have completed less than 24 points of academic work;

Sophomores: those who have completed 24 points;

Juniors: those who have completed 54 points;

Seniors: those who have completed 86 points;

Unclassified students: those who have not yet been assigned definite credit on transfer; students who elect less than 10 points a session.

No matriculated student may change her status to that of a non-matriculated student.

FILING OF PROGRAMS. In 1954-1955 final programs must be in the hands of the Registrar by the following dates:

WINTER SESSION		SPRING SESSION	
Upperclassmen		Upperclassmen	
Names A-I	September 29	Names A-I	February 11
Names J-R	September 30	Names J-R	February 10
Names S-Z	October 1	Names S-Z	February 9
All freshmen	October 4	All freshmen	February 14

CHANGE OF PROGRAM. After a student's final program has been filed, no change of any kind, including changes of sections, may be made without the written consent of the Class Adviser and the major department. No change in the point value of a course may be made without the authorization of the Committee on Programs and Standing. *All changes must be filed in the Office of the Registrar by the student herself.* Failure to do so may result in errors in the permanent record, loss of credit, and fines.

Any change initialed by a student after her final program has been filed entails an automatic fee of \$5.

ABSENCES. All students are expected to attend regularly the courses for which they have registered. An undue amount of absence or tardiness may result in a lowering of grades. Students are expected to reserve their absences for illness and other urgent matters.

The attendance of freshmen is under the supervision of the Committee on Programs and Standing, which at the end of each semester considers each instance of undue absence. Undue absence is defined as absences exceeding the number of class hours in a week, as follows: more than one absence from a class meeting one hour a week, more than two absences from a class meeting two hours a week, and so on. Two tardinesses equal one absence. Illness will be considered as an

excuse for excess absence, only if the student files a statement in the College Physician's Office immediately after she returns to College.

All students must report their absences on forms available for the purpose in the Office of the College Physician, with the understanding that stating the reasons for the absences is optional, except in the case of illness when the nature of the illness must be recorded.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observances should make application to the appropriate religious counselor for an equitable solution, and file the results in writing in the Registrar's Office.

EXAMINATIONS. Two series of examinations are held every year, one in January and one in May. These are the only stated examinations. For the year 1954-55, the mid-year examinations begin on Monday, January 17, and final examinations begin on Monday, May 16.

Deficiency examinations are open *only* to those students whose work during the term has been satisfactory, and who have been *unavoidably* absent from stated examinations.

In 1954 they will be held on Saturday mornings in October. They must be taken in the autumn immediately following the stated examination period, *or* in the second autumn thereafter. After that time, credit for the course is forfeited. Application to take a deficiency examination must be made in writing, and *the fee of \$5 for each examination must be paid in advance.*

Students in the last semester of their senior year, who are absent from a final examination for imperative reasons, may request a special examination. *For each special examination there is a fee of \$10, payable in advance.*

GRADES AND CREDIT RATING. Performance in a course is rated as follows: A and A—, excellent; B+, B, and B—, good; C+, C, and C—, fair; D, poor; P, passed without specific grade; F, failure. The mark *incomplete* is given only when the student has obtained permission from the instructor in advance to postpone the submission of work, which must be completed before a grade can be reported. Work that is not completed within three weeks after the end of the session is automatically graded F.

Academic standing is determined by a valuation of each point according to the mark received. Each point with a mark of A counts 4; B, 3; C, 2; D, 1; F, 0. An adjustment of +0.3 or -0.3 is made for each recorded plus or minus. The average mark per point is the student's rating.

No more than 6 points of D work may be credited in any one year. If more than four years is necessary to obtain the degree, no more than 24 points of D work may be counted in the total credits. No work of

D grade may be counted in the major of 28 points, and no D work done in the summer may be credited.

Records of all students are examined at the end of the sophomore year, and only those who have attained a 2.00 rating or better at Barnard, or who have shown promise of future development, will be permitted to remain in College for the junior and senior years.

To be recommended for the degree, a student must attain an average of 2.00 (C) or above for the entire course, and for the senior year. If this requirement is not fulfilled, the Committee on Instruction determines whether or not the student may remain at Barnard.

DEAN'S LIST. A Dean's List, compiled by the Faculty Committee on Honors at the end of each academic year, consists of the names of students who deserve special mention for scholarly excellence. This list is announced at the opening of the following academic year.

DEGREES. When the student has completed her course of study satisfactorily, she is recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in June, February, and October.

Degrees with general honors are awarded to students who complete the work for the degree with the highest distinction (*summa cum laude*), with high distinction (*magna cum laude*), and with distinction (*cum laude*).

Degrees with departmental honors are awarded to those graduates who have done work of outstanding quality in the major field.

Professional Schools of Columbia University
Open to Barnard Undergraduates and Graduates

PROFESSIONAL SCHOOLS OF COLUMBIA UNIVERSITY OPEN TO BARNARD UNDERGRADUATES AND GRADUATES

The requirements for admission to the professional schools of the University vary: in some instances a Bachelor's degree is necessary; in others a student is eligible upon graduation from high school, or after three years, two years, or one year of successful college study. Since only a limited number of students can be accommodated, the most promising applicants are selected by the Office of University Admissions.

Barnard College keeps in close touch with these schools and endeavors to give pertinent advice concerning them. Full information regarding each school may be obtained from its own announcement, which will be sent on request by the Secretary of Columbia University.

Students preparing at Barnard for admission to these professional schools must take the courses normally required of all degree candidates. They should also elect the subjects required by the school they hope to enter.

THE PROFESSIONAL OPTION

An exceptionally good student may shorten her course by means of the "professional option" — a plan under which permission is given to count the first year in a professional school in place of the senior year at Barnard. To be eligible for this privilege, a student must complete at Barnard, before transferring to the professional school, 90 points of academic work, including all specific requirements, a major of 28 points, and the major examination.

Students transferring to Barnard from other institutions will be granted the privilege of professional option only if they have a superior record. In no case will permission be given until after the student has completed at least one full year of work at Barnard.

The professional option may be exercised in connection with the Schools of Architecture, Dental and Oral Surgery, Engineering, Law, Medicine, Painting and Sculpture, and the Department of Optometry.

ARCHITECTURE

The School of Architecture offers a course of study leading to the degree of Bachelor of Architecture. Under normal conditions, the professional degree may be obtained in four years.

The work at Barnard should include, among other courses, a full year each of English, a foreign language (preferably French or German), mathematics, and either economics, history, government, or sociology. For students not candidates for the Barnard degree, at least one year (30 points) of college work, but preferably more, is required for admission to the School of Architecture.

BUSINESS

The Graduate School of Business offers a one-year course of study leading to the degree of Master of Science for college graduates who have majored in business, a two-year course of study leading to the degree of Master of Business Administration for college graduates without previous preparation in business, and advanced studies leading to the degree of Doctor of Philosophy.

Well-qualified men and women who are precluded by economic circumstances from registering for a full program are admitted for part-time study under appropriate supervision and control.

DENTAL HYGIENE

A two-year course for Dental Hygienists is offered at the School of Dental and Oral Surgery, leading to the Bachelor of Science degree in Dental Hygiene. The minimum requirement for admission is two years (60 points) of college work. The preparatory work at Barnard should include the satisfactory completion of the following requirements: English, 6 points; biological science or chemistry, 3 points; sociology or psychology, 3 points. Applicants who lack not more than 8 of the 60 credits required for admission will be considered for matriculation on condition that the 8 credits be earned during the summer session between the junior and senior years.

This profession is limited to women and is controlled by state law and licensing examination.

Two scholarships of \$300 each are offered each year, provided by the Dental Hygienists Alumnae Association of Columbia University.

DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery offers a four-year course of study leading to the degree of Doctor of Dental Surgery. The preparatory work at Barnard should comprise a minimum of 6 points each in English composition and literature, physics, zoölogy, inorganic chemistry and organic chemistry. The Admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire predental record and select the most promising candidates. The minimum requirement for admission is three years (90 points) of college work.

DRAMATIC ARTS

The School of Dramatic Arts offers to graduates of an approved secondary school a four-year course of study leading to the degree of Bachelor of Fine Arts (in Dramatic Arts).

ENGINEERING

The School of Engineering offers undergraduate programs in chemical, civil, electrical, industrial, mechanical, mining, metallurgical, and

mineral engineering. Each of these programs is a blend of four groups of studies: first, those designed to broaden the student's general cultural education; second, those intended to give her competence in mathematics and the natural sciences; third, the basic engineering sciences such as mechanics of materials; and fourth, those by which she will become thoroughly grounded in the application of fundamental principles to her specific field of engineering.

Because of the scope of these programs the first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses are taken in the engineering school. After successful completion of the first three years' work, the student applies for admission to the School of Engineering, and the remaining two years of more specialized engineering study are taken under the School of Engineering. This program is known as the "professional option" program.

Although the above plan is educationally desirable, it is possible in some cases for the exceptional student to complete the prescribed subjects with two years in Barnard College and two years in the School of Engineering. This program leads to the degree of Bachelor of Science only.

Students who are interested in engineering should offer at entrance to Barnard additional credits in mathematics (through trigonometry), one in chemistry, and if possible, one in physics. For details the student should consult the Dean of the School of Engineering.

Further information about the engineering program and the advanced degrees may be obtained from the *Announcement of the School of Engineering*.

INTERNATIONAL AFFAIRS

The purpose of the School of International Affairs is to provide a course of instruction which will equip a limited number of students for staff and administrative posts in international fields. The emphasis during the first year is upon the development of an adequate knowledge and understanding of the field generally and of a specialized knowledge of one world area; emphasis in the second year is upon the development of one of the following functional specialties: business affairs, economic affairs, government affairs, international administration, and legal affairs. The degree of Master of International Affairs will be awarded upon the satisfactory completion of the course.

The basic requirements for admission are: (a) a Bachelor's degree from an approved institution, and (b) a superior undergraduate record. In addition to these basic requirements, the student must satisfy special requirements of the functional field in which she plans to specialize. Further information may be obtained from the Office of University Admissions.

JOURNALISM

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should, wherever possible, include courses in English composition, government of the United States, history since 1914, economics and sociology. The applicant must have completed courses totaling 96 points in liberal arts and sciences.

LAW

The School of Law offers a three-year course of study leading to the degree of Bachelor of Laws. The preparatory work at Barnard must be of good grade. Although there is no required pre-law curriculum, students would be well advised to take courses in English, government, economics, and United States and English history. The minimum requirement for admission is three years (90 points) of college work, but the complete college course of four years is considered advisable. Admission is on a competitive basis. All applicants for admission to the Law School are required to take an aptitude test. This test will be given in many locations throughout the United States several times during the academic year, the first date being November 13, 1954. For further information write to the Educational Testing Service, Post Office Box 592, Princeton, New Jersey.

LIBRARY SERVICE

The School of Library Service offers a one-year course of study leading to the degree of Master of Science. A Bachelor's degree in liberal arts, acceptable scores in the Graduate Record Examination, and evidence of fitness for library work are required for admission. Undergraduate courses should include two years' study of a modern foreign language.

MEDICINE

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory work at Barnard must be of good grade and must include the requirements prescribed by the New York Board of Regents as follows: approved courses in English, physics, and biology, covering at least one academic year each, and approved courses in chemistry, covering at least one and one-half academic years, including an approved course in organic chemistry.

Before admission to the medical school, the entire premedical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

NURSING

Columbia University offers a three-year course at the College of Physicians and Surgeons and the Presbyterian Hospital leading to the degree of Bachelor of Science and a diploma in nursing. The preparatory work at Barnard should comprise work in chemistry or biology, psychology, and sociology. The acceptance of a candidate is based on grounds of character and health as well as on the fulfillment of the academic requirements. The minimum requirement for admission is two years (60 points) of college work, but students who hold the Bachelor's degree may obtain permission to complete the course in two years and four months.

OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of professional study leading to the Bachelor of Science degree in Occupational Therapy. Students who have satisfactorily completed at least two years of acceptable work in a college approved by Columbia University may register for the regular course to be completed in two years (25 calendar months). The two years (60 points) in liberal arts required for admission on this basis should include a year of biological or physical science, and at least one semester of general psychology and one semester of sociology. Electives may be chosen from such subjects as languages, science, the humanities, and the social and political sciences. In addition, candidates for admission must possess personal qualifications and aptitude suited to the practice of occupational therapy. Whenever possible, aptitude will be judged in part by a personal interview.

A graduate program of 17 months is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree. The Faculty of Medicine awards a Certificate upon satisfactory completion of this course.

Interested students are referred to the Columbia University Bulletin of Information: Announcement of courses for Occupational Therapists, College of Physicians and Surgeons, for further information relative to requirements.

OPTOMETRY

A special committee of the University Council administers a closely integrated program to prepare young men and women for the practice of the profession of optometry. The course requires at least two years of academic work, followed by three years of professional studies, and leads to the degree of Master of Science.

The requirement for admission to the professional part of the course is the satisfactory completion of 64 points in an acceptable liberal arts college, including the following required subjects: one year each of English, history or another social science, physics, zoölogy or physiology (or biological course of suitable content), and psychology; and two

years of mathematics through differential and integral calculus. It is recommended that electives to make up the total point requirement be chosen from the following: two years in a modern language (German, French or Spanish), one additional year of English, one additional year of humanities or social science, one year of chemistry, one semester of biology.

PAINTING AND SCULPTURE

The School of Painting and Sculpture offers to graduates of an approved secondary school a four-year course of study leading to the degree of Bachelor of Fine Arts (in Painting or in Sculpture).

PHYSICAL THERAPY

The Faculty of Medicine offers a program of training in Physical Therapy which leads to the Bachelor of Science degree. The candidate for admission must offer two years (60 points) of acceptable college work, including a total of 16 points in psychology, physical science, and biological science.

The course of professional study covers 21 calendar months, including two academic years of didactic instruction and clinical practice, plus one summer of clinical practice.

A graduate program of 13 months is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree. The Faculty of Medicine awards a Certificate upon satisfactory completion of this course.

PUBLIC HEALTH

The Faculty of Medicine offers a program of professional study at the School of Public Health leading to the Master of Science degree in Hospital Administration, Biostatistics, and Parasitology. A Bachelor's degree from an approved college and evidence of satisfactory scientific training are necessary for admission. All candidates must spend at least one academic year at the school. An administrative residency of one calendar year's duration is required of all hospital administration students.

THE RUSSIAN INSTITUTE

The Russian Institute of Columbia University was established in 1946 with the assistance of the Rockefeller Foundation. The two-year graduate program leading to a Certificate is designed for students who wish to prepare themselves for scholarly or professional careers in the Russian field with special emphasis on some one discipline.

Within the Institute, the candidate will be expected to follow a broad program of survey courses on Russia, and to give major emphasis to one of five Russian fields: history, economy, government and law, international relations, or the social and ideological aspects of literature. Outside the Institute, she will work simultaneously for an advanced

degree in the graduate department or school that is most closely allied with the specialty she elects within the Institute.

It is not necessary for a candidate for admission to the Institute to have a knowledge of Russian, as a reading knowledge of the language can be acquired during the first year of the two-year program.

SECRETARIAL STUDIES

Students in Columbia University may complete basic training in stenography, typewriting and secretarial skills in courses offered in the School of General Studies. Such training will often be found of value in connection with advanced study and research, and in gaining entrance to a career in business, government, and the professions. For a bulletin, write to the Director of University Admissions.

SOCIAL WORK

The New York School of Social Work of Columbia University offers a two-year course of study leading to the degree of Master of Science. The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of courses, supervised field work in social work agencies, and research to prepare students for professional practice in social work.

A Bachelor's degree is required for admission. The undergraduate program of study must include a minimum of 60 points in strictly liberal arts studies and not less than 20 points in the social and biological sciences, with the emphasis in the direction of the social sciences.

The School has a limited enrollment and admission is on a selective basis. The General Announcement, giving information about the curriculum and dates for filing application, may be obtained upon request.

TEACHERS COLLEGE

Teachers College, Columbia University, provides for college graduates a one-year course of study leading to the Master's degree and to teacher certification in any one of these teaching fields: nursery education, kindergarten, elementary education, biology, business subjects, chemistry, English, fine arts, foreign languages, health education, history, mathematics, music, physical education, physics, recreation, science, social studies, speech, and special programs of education for work with the blind, hard of hearing, deaf, mentally retarded and physically handicapped.

A combined five-year program can be planned: the regular four-year undergraduate program of liberal arts studies can be combined with the fifth professional year of graduate work at Teachers College. The one-year course of study at Teachers College provides for practical experience and classroom instruction. The program is planned in terms of the individual's background and teaching interests. For

guidance on planning programs for teacher preparation—see Dean McGuire, 117 Milbank Hall, and Mr. Lange, 311 Dodge Hall, Teachers College.

UNION THEOLOGICAL SEMINARY

Union Theological Seminary offers courses of study leading to the degrees of Bachelor of Divinity, Master of Religious Education, Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions, and Master of Sacred Music.

Since accommodations at the Seminary are limited, it is necessary to select from the total number of applicants for admission those who seem best qualified, and who in the light of their expressed purpose, personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry. The requirement for admission is a Bachelor's degree, including special work as indicated below for each degree:

a. *Bachelor of Divinity.* The preparatory work for this three-year course should include the study of philosophy, especially the history of philosophy, and courses in history, literature, economics, psychology, and at least one modern language, either French or German. A knowledge of Greek is desirable.

b. *Master of Arts* in the fields of Christian Education, Biblical Literature, and Comparative Religions. Preparatory work for these courses should include: (1) in Christian Education, some knowledge of the Bible, of the philosophy and ethics of the Christian religion, and of either the psychology of personality or the principles of education; (2) in Biblical Literature, a working knowledge of Hebrew and Greek sufficient to proceed at once to exegesis based on the original languages of the Bible; (3) in Comparative Religions, a general knowledge of the history of religions and a working knowledge of such language as may be necessary for study in the candidate's field of special interest. Students with satisfactory preparation in these subjects may complete the work for the Master of Arts degree in one year.

c. *Master of Religious Education.* Preparatory work for this course should be the same as that for the Master of Arts in Christian Education as indicated under b. above.

d. *Master of Sacred Music.* Candidates for this degree must give evidence of the completion of an amount of work in music sufficient to enable them to enter with profit upon the courses in sacred music.

The Seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University, and to the degrees of Master of Arts, Doctor of Education and Doctor of Philosophy in religious education through Teachers College, Columbia University.

FINANCIAL AID

SCHOLARSHIPS
FELLOWSHIPS AND
PRIZES

FINANCIAL AID

The College desires that no qualified student be excluded from Barnard because her family has only moderate means. For this reason scholarships, grants-in-aid, loan funds, and provisions for employment through the Placement Office are maintained.

Despite constant efforts to increase them, scholarship funds are never sufficient to meet all the demands. For this reason it is hoped that those who benefit from this assistance may take a special interest in adding to the scholarship funds of the College after they have graduated.

SCHOLARSHIP AND LOAN FUNDS

The Associate Alumnae of Barnard College have long maintained a Student Loan Fund from which sophomores, juniors and seniors may borrow. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, a new fund known as the Swope Loan Fund was established. These two funds are now administered by the Faculty-Alumnae Scholarship and Loan Committee. In making application for financial aid, a student specifies the amount of money needed to supplement family funds. This may be granted by the Committee partially as an award (scholarship, grant-in-aid) with the remainder being made available as a loan from the above mentioned funds.

A maximum of \$500 may be borrowed over the entire college period with loans being made to students in the sophomore, junior and senior years. The rate of interest on all loans is 1% per year, but no interest is charged while the student is in college. Although payments on principal may be made at any time while the student is an undergraduate, no payments are required until six months after graduation. Loans of more than \$200 are scheduled to be repaid over a period of five years and loans of \$200 and less over a three-year period.

Awards are made on the basis of integrity, good standing in the community, academic merit, a sense of responsibility, and financial need. Those who give evidence of being "good citizens" in the College community, but whose marks are not of top rank, are, in special cases, awarded grants-in-aid.

APPLICATIONS. Barnard is coöperating with the other colleges in the Seven College Conference in the awarding of scholarships on a non-competitive basis. *Entering students* who wish to apply for a scholarship must file, with the College Scholarship Service of the College Entrance Examination Board, a financial statement of need, as follows:

1. Write to the College Entrance Examination Board for the necessary financial aid statement which must be completed and returned to

the Board by February 15. Students who live in and west of Montana, Wyoming, Colorado, New Mexico, Alberta, British Columbia, Alaska, Mexico, Australia, Japan, and the Pacific Islands, should write to the Pacific Coast Office of the Board, P.O. Box 9896, Los Feliz Station, Los Angeles 27, California. *All others should write to the College Entrance Examination Board, Box 176, Princeton, New Jersey.* The College Board will charge the applicant \$1.00 for each transcript of the financial aid statement.

2. Write to the Admissions Office, Barnard College, New York 27, New York, for a regular scholarship application form which must be completed and returned to the Admissions Office by February 15. Students need not indicate that they are applying for a specific scholarship, but should merely give the minimum sum needed.

Students in college must file applications for financial aid (scholarships, grants-in-aid, as well as loans) on special blanks obtainable in the Office of the Dean of Student Administration. Applications must be filed on or before March 1.

AWARDS. Applicants for scholarships will be notified as soon as awards are made. Recipients are requested to inform the Dean of Student Administration *immediately* in writing, if they do not intend to use the funds awarded.

GENERAL SCHOLARSHIPS

BARNARD COLLEGE CLUB OF NEW YORK SCHOLARSHIP. The income of a fund of approximately \$20,000, founded in 1952. The income is to be awarded to a deserving Barnard student whose home is outside the area of the City of New York.

ANNA E. BARNARD SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1899 by the late Miss Emily H. Bourne in honor of Mrs. John G. Barnard.

BARNARD SCHOOL ALUMNAE SCHOLARSHIP. The income of a fund of \$4,000. Founded in 1916 by the alumnae of the Barnard School for Girls. It may be awarded to a student in any class, preference being given to nominees of the school.

WILLINA BARRICK MEMORIAL SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1936 by the College Club of Jersey City as a memorial to Willina Barrick, Class of 1900. It is awarded on the nomination of the Club to a graduate of a Jersey City secondary school.

IRVING BERLIN SCHOLARSHIP. The income of a fund of \$12,500. Founded in 1950 by Irving Berlin. It is awarded annually to one or more girls of foreign-born parentage.

RUTH MARSHALL BILLIKOPF SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1950, in honor of Ruth Marshall Billikopf, Class of 1919. The income will be awarded to needy and deserving students, with emphasis on character as well as academic success.

CHARLES E. BOGERT MEMORIAL SCHOLARSHIP AND ANNA SHIPPEN YOUNG BOGERT MEMORIAL SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1913 with a bequest from the late Annie P. Burgess. They are awarded to worthy and deserving students of good Christian character who are unable to pay their own expenses.

BREARLEY SCHOOL SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1899 by pupils and former pupils of the Brearley School.

MARTHA ORNSTEIN BRENNER SCHOLARSHIP. The income of a fund of \$4,000. Founded in 1915 by her friends in memory of Martha Ornstein Brenner, Class of 1899.

ALICE MARIE-LOUISE BRETT SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1930 with a bequest from the late Philip E. Brett in memory of his daughter, Alice Marie-Louise Brett, Class of 1915. It is awarded during her senior year to an able and deserving student specializing in French.

BROOKLYN SCHOLARSHIPS (\$150 EACH). Founded in 1895 by the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students residing in Brooklyn and prepared in a Brooklyn school.

CARPENTIER RESIDENCE SCHOLARSHIPS (\$400 TO \$900 EACH). Founded in 1919 with a bequest from the late Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity.

ELIZA TAYLOR CHISHOLM MEMORIAL SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1901 by the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend.

JENNIE B. CLARKSON SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1898 by the late Mrs. W. R. Clarkson.

MRS. HENRY CLARKE COE SCHOLARSHIP. The income of a fund of \$3,600. Founded in 1910 by the National Society of New England Women, now the New York City Colony of the National Society. It is awarded, on the nomination of the chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is once made the Society re-

quires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman.

SCHOLARSHIP IN ENGLISH. The income of a fund of \$5,000. Founded in 1920 by an anonymous donor. It is awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that if in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used, at the discretion of the Faculty Committee on Scholarships, to assist a student majoring in some other subject.

MARTHA T. FISKE SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1911 by Miss Anna E. Smith, in memory of her sister, Mrs. Martha T. Fiske-Collord. It is awarded, on the basis of scholarly ability and general character, to some deserving candidate not a resident of New York City or its suburbs.

HELEN JENKINS GEER SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1940 by Helen Hartley Geer, Class of 1940, in memory of her mother, Helen Jenkins Geer, Class of 1915. It is awarded annually, after conference with the donor.

GERMAN SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1950. It is awarded annually at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date.

VIRGINIA GILDERSLEEVE INTERNATIONAL SCHOLARSHIP. The income of a fund of \$15,100. Founded in 1937 by Mr. Charles R. Crane in honor of the international work of Dean Emeritus Gildersleeve. It is awarded annually to a foreign student coming to Barnard to study.

GRAHAM SCHOOL SCHOLARSHIP. The income of a fund of \$6,100. Founded in 1907 by the Graham Alumnae Association.

HARKNESS SCHOLARSHIPS. Established in 1939 by a gift of \$100,000 from the late Edward S. Harkness. Awarded to able and needy students.

EMMA HERTZOG SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1904 by gifts from residents of Yonkers, N. Y. It is awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school.

CHARLES EVANS HUGHES SCHOLARSHIP. The income of a fund of \$14,300. Founded in 1952 on the basis of a bequest from the late Charles Evans Hughes in 1949.

LILLIA BABBITT HYDE SCHOLARSHIP. The income of a fund of \$25,000. Founded in 1953 by the Lillia Babbitt Hyde Foundation. It is awarded to pre-medical students.

CHARLOTTE LOUISE JACKSON SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1928 with a bequest from the late Fannie A. Jackson in memory of her sister. It is awarded to a graduate of a Yonkers high school selected by or under the direction of the Board of Education of Yonkers.

MARY E. LARKIN JOLINE SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1927 with a bequest from the late Mary E. Larkin Joline. It is awarded to a student who is specializing in music.

LILY MURRAY JONES SCHOLARSHIP. The income of a fund founded in 1950 by Murray, Alfred and Wallace Jones in memory of Lily Murray Jones, Class of 1905, Alumnae Trustee from 1939 to 1943. The income will be awarded annually to an able and deserving student.

JESSIE KAUFMANN SCHOLARSHIP. The income of a fund of \$4,000. Founded in 1902 by Mr. Julius Kaufmann in memory of his daughter, Jessie Kaufmann. Awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course.

ELEANORA KINNICUTT SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1911 in memory of Mrs. Francis P. Kinnicutt, who was a Trustee of Barnard College. It is awarded at the end of the freshman year to a student of exceptionally high standing, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1954 and 1957.

AUGUSTA LARNED SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1924 with a bequest from the late Augusta Larned.

MRS. DONALD MCLEAN SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1906 by the New York City Chapter of the Daughters of the American Revolution. It is awarded, in conference with a representative of the Chapter, to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.

CAROLINA MARCIAL-DORADO SCHOLARSHIP. The income of a fund of \$2,500. Founded in 1953 in memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. It is awarded to a deserving student from Spain. If at any time there is no applicant from Spain eligible for the grant, it may at

the discretion of the Department of Spanish be awarded to a deserving student who is majoring in Spanish.

WILLIAM MOIR SCHOLARSHIPS. The income of a fund of \$10,000. Founded in 1912 by the late Mrs. William Moir, in memory of her husband.

MARY BARSTOW POPE SCHOLARSHIP. The income of a fund of \$4,000. Founded in 1913 in memory of Mary Barstow Pope, sometime teacher in Miss Chapin's school, by her friends, her fellow-teachers, and her pupils. It is open to any undergraduate for the whole or any part of her course, and is awarded on the nomination of a self-perpetuating committee representing the founders.

PUBLIC SERVICE SCHOLARSHIP. The income of a fund of \$30,000 from the Women's Organization for National Prohibition Reform, to be awarded to young women of exceptional ability, who are interested in following a career of public service in the field of political science, and who show special promise of future usefulness in the public service. The award is to be paid annually at the discretion of the Faculty of Barnard College to either one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one or two or three additional years of graduate study at any approved college or university in order to encourage young women of exceptional ability to complete a long course of study which will fit them for service in public life.

LUCILLE PULITZER SCHOLARSHIPS (\$300 TO \$900 EACH). Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. Three are restricted to students from the City of New York; eight are for resident students.

LUCILLE PULITZER SUPPLEMENTARY SCHOLARSHIPS (\$50 EACH). Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. They are awarded to worthy and needy students, and may be used to supplement larger scholarships or themselves combined into scholarships of \$100 or more. The money is applicable to tuition fees, residence fees, or in special cases, general outside expenses.

MARIE REIMER SCHOLARSHIP. The income of a fund of approximately \$2,600. Founded in 1953 by former students and friends of Professor Emeritus Marie Reimer, a member of the Barnard College Department of Chemistry for more than forty years. To be awarded annually at the end of her junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in chemistry. If in any year, no student qualifies for the award, it may be deferred until the following year.

PETER C. RITCHIE, JR., SCHOLARSHIP. The income of a fund of \$4,400. Founded in 1937 with a bequest from the late Virginia J. Ritchie. It is awarded to a needy student.

ELEANOR BUTLER SANDERS SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1922 with a bequest from the late Henry M. Sanders.

ANNA M. SANDHAM SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1922 with a bequest from the late Anna M. Sandham.

SCHMITT-KANEFENT SCHOLARSHIP. The income of a fund of \$7,000. Founded in 1931 with a bequest from the late Catherine Schmitt.

EMILY JAMES SMITH SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1899 by the late Miss Emily H. Bourne in honor of Miss Smith, Dean of Barnard College from 1894 to 1900.

EDNA PHILLIPS STERN SCHOLARSHIP. The income of a fund of \$3,585. Founded in 1952 by the family and friends of the late Edna Phillips Stern, Class of 1909.

EMMA A. TILLOTSON SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1910 by the late Mrs. Luther G. Tillotson. It is awarded at the end of the freshman year to a student of exceptionally high standing, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1954 and 1957.

VELTIN SCHOOL SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1905 by the alumnae of Mlle. Veltin's School.

HELEN ELIZABETH VOSBURGH SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1934 with a bequest from the late Katherine G. Lippke in memory of Helen Elizabeth Vosburgh, Class of 1925. In awarding this scholarship, preference is given to a self-supporting student.

GERTIE EMILY GORMAN WEBB SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1953 by the late Charles Webb. It is awarded to a student nominated by the Department of History.

ELLA WEED SCHOLARSHIP. The income of a fund of approximately \$3,600. Originally established in 1895 by the pupils and alumnae of Miss Anne Brown's School in memory of Miss Ella Weed, who was chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence.

HYMEN WERNER SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1953 with a bequest from Helen Frankfield Werner, Class of 1906, in memory of her husband, Hymen Werner. It is awarded annually to an able and deserving student.

ALMA GLUCK ZIMBALIST SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1940 with a bequest from the late Alma Gluck Zimbalist. It is awarded annually to a student who wishes to major in political science.

SCHOLARSHIPS ESTABLISHED ON A TEMPORARY BASIS

BARNARD-IN-BERGEN CLUB SCHOLARSHIP. A tuition scholarship, with stipend varying. Awarded to an entering freshman from Bergen County, New Jersey, for one year only.

BARNARD-IN-BROOKLYN CLUB SCHOLARSHIP. A tuition scholarship, with stipend varying, established in 1944. It is awarded annually to a student from Brooklyn.

HOLLAND DAMES SCHOLARSHIP. Established by the Daughters of Holland Dames in honor of Fanny I. Helmuth. It is awarded in conference with a representative of the society to a student descended from the early Dutch settlers, who is in need of aid.

WESTCHESTER SCHOLARSHIP. Established by the Barnard College Club of Westchester in 1937, in memory of Edna Chapin Close, Class of 1902. Value \$400. Awarded to entering freshmen from Westchester County for one year only.

SEVEN COLLEGE SCHOLARSHIPS

The Seven College Conference, made up of Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley, annually offers twenty-one Seven College Scholarships for incoming freshmen. Each college offers a scholarship in each of the three following districts: *Middle West*: Kansas, Missouri, Nebraska; *South*: Louisiana, New Mexico, Oklahoma, Texas; and *West*: Arizona, California, Oregon, Washington.

The amount of the scholarship will be determined by the college making the award from financial information furnished by the applicant. Honorary scholarships carry no stipend; other awards range up to the full amount for tuition, room and board.

Information and application blanks may be obtained from the Director of Admissions of Barnard College.

GRANTS-IN-AID

MARY GERTRUDE EDSON ALDRICH SCHOLARSHIP FUND. A fund of \$1,000, given by Mrs. James Herman Aldrich. The income is used to assist in

her senior year a student who has shown in her college life the moral qualities which go to the making of fine womanhood.

ALUMNAE SCHOLARSHIP FUND. A fund of approximately \$12,299. Established by the Class of 1912 at its tenth reunion, it was subsequently increased by a legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. The income is to be used to help needy and deserving students.

EDNA HENRY BENNETT MEMORIAL SCHOLARSHIP FUND. A fund of \$1,640, established in 1927 by friends of the late Edna Bennett, Class of 1915, Lecturer in Zoölogy. The income is to be awarded by the Department of Zoölogy for work at a biological laboratory offering summer courses.

IDA BLAIR MEMORIAL FUND. A fund of \$700, established in 1937 by the Women's Democratic Union, in memory of Ida Blair. The income of the fund is to be used each year for the purchase of books for a student (preferably one studying political science) who shall be designated as deserving by the President of the College.

EVA-LENA MILLER BOOTH SCHOLARSHIP FUND. A fund of \$1,000, given in 1932 by the New York City Chapter of the Daughters of the American Revolution as a memorial to the late Mrs. Eva-Lena Miller Booth. The income is to be used to help needy and deserving students.

ARTHUR BROOKS FUND. A fund of \$5,000, given in 1897 by Miss Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence.

ANNE BROWN ENDOWMENT SCHOLARSHIP FUND. A fund of approximately \$26,276, given in 1939 by the Anne Brown Alumnae Association and dedicated to the late Anne Brown. The income is used for scholarships for young women of the City of New York who would otherwise be financially unable to attend Barnard.

CARPENTIER SCHOLARSHIP FUND. A fund of \$200,000, the bequest of the late Horace W. Carpentier. The income remaining after the payment of the Carpentier Residence Scholarships described on page 51 is placed at the disposal of the President of the College for distribution in scholarships of varying amounts, according to the needs of deserving students.

THOMAS F. CLARK STUDENTS' LOAN FUND. A fund of \$100,000, the bequest of the late Mrs. Fanny Foster Clark. The income is to be used to aid needy and deserving students.

CLASS OF 1919 DECENNIAL FUND. A fund of \$5,000, established in 1929 as a tenth reunion gift by the Class of 1919, to endow a room in Hewitt Hall for the use of a deserving and needy student.

CLASS OF 1921 SCHOLARSHIP FUND. A fund of \$2,500, established in 1931 as a tenth reunion gift by the Class of 1921. The income is to be used to help needy and deserving students.

ADA M. DONELLE SCHOLARSHIP FUND The income of a fund of \$121,751. Founded in 1948 with a bequest from the late Mrs. Ada M. Donelle. The income is to be used for scholarships for the support and education of students who would otherwise be financially unable to continue their education at the College.

FISKE SCHOLARSHIP FUND. A fund of \$5,000, given by the late Mrs. Martha T. Fiske-Collord, the income of which is placed at the disposal of the President of the College.

GALWAY FUND. The income of a fund of \$2,400. Established in 1912 by an anonymous donor. It is awarded annually.

IRMA ALEXANDER GOLDFRANK FUND. A fund of \$2,105, established in 1919 by the friends of the late Irma Alexander Goldfrank, Class of 1908. The income is placed at the disposal of the President of the College to be used to aid needy and deserving students.

MARION ALICE HOEY FUND. A fund of \$2,000, given in 1944 by Miss Nellie Poorman in memory of a graduate of Barnard College in the Class of 1914. The income is placed at the disposal of the President of the College to be used for the aid of needy and deserving students, preference being given to those studying Greek and Latin.

LOUISE GRACE LUBY AND JAMES LUBY SCHOLARSHIP FUND. A fund of \$5,000, established in 1947 by the estate of the late Grace Farrant Luby, Class of 1893. The income of the fund is to be used for scholarships, preferably for students in need of financial assistance.

CAROLINE CHURCH MURRAY FUND. A fund of \$5,000, established in 1918 by Mr. George Welwood Murray in memory of his wife, Caroline Church Murray. The income is placed at the disposal of the President of the College to be used to aid needy and deserving students.

ANNETTE FLORANCE NATHAN SCHOLARSHIP FUND. A fund of \$3,000, established in 1947 by the estate of the late Frederick Nathan. The income is placed at the disposal of the President of the College.

LUCRETIA PERRY OSBORN SCHOLARSHIP FUND. A fund of \$5,000, established in 1940 with gifts from her family and friends, in memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930. The income is to be used to aid one or more needy and deserving students.

EDITH LOWENSTEIN ROSSBACH MEMORIAL SCHOLARSHIP FUND. A fund of \$17,805, established in 1950 by the family, friends, and classmates

of the late Edith Lowenstein Rossbach, Class of 1919. The income is placed at the disposal of the President of the College to be used to aid needy and deserving students.

SCHOLARSHIP FUND. A fund of approximately \$12,000, established by general subscription through the Scholarship Committee of the Board of Trustees.

GEORGE W. SMITH SCHOLARSHIP FUND. A fund of \$5,000, given in 1906 by the late Mrs. Martha T. Fiske-Collord as a memorial to Mr. George W. Smith, who was a Trustee of Barnard College. The income of the fund is placed at the disposal of the President of the College.

CLARA BUTTENWIESER UNGER MEMORIAL FUND. A fund of \$2,000, established in 1938 by the late Joseph L. Buttenwieser, in memory of his daughter, Clara Buttenwieser Unger, Class of 1913. The income of the fund is to be awarded annually to assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.

ALMA F. WALLACE SCHOLARSHIP FUND. A fund of \$1,000, established in 1951 by the estate of the late Richard L. Leo in memory of Alma F. Wallach. The income of the fund is to be used for scholarships.

GRADUATE FELLOWSHIPS

KIMBALL FELLOWSHIP. The income of a fund of \$32,800. Founded in 1938 with a bequest of the late Lillian Emma Kimball. This fellowship is to be awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate work at Columbia or elsewhere, under the direction of a special committee of women members of the Faculty.

GEORGE WELWOOD MURRAY GRADUATE FELLOWSHIP. The income of a fund of \$20,000. Established by Mr. George Welwood Murray in 1930. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. This fellowship is to be awarded each year as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. This fellowship may not be applied for, but is awarded each year in March. Students who have graduated in February are eligible, as well as those who are to graduate in June.

GRACE POTTER RICE FELLOWSHIP. The income of a fund of \$24,000. Established in 1935 by Mr. Winthrop Merton Rice in memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934. The holder is to pursue a year of graduate study in natural sciences or mathematics at Columbia or any other university or college of approved standing. This fellowship is awarded each year as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. This fellowship may not be applied for, but is awarded each year in March. Students who have graduated in February are eligible, as well as those who are to graduate in June.

THE HERBERT MAULE RICHARDS FUND. A gift of \$5,000. Established by the Barnard Botanical Club, former students, and friends, in memory of Professor Richards, a member of the Department of Botany from 1896 to 1928, and Chairman from 1897 to 1928. The income from this fund will be granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College.

GRADUATE SCHOLARSHIPS

ALPHA ZETA CLUB GRADUATE SCHOLARSHIP. The income of a fund of \$6,800, established in 1936 by the Alpha Zeta Club, Inc. This scholarship is to be awarded at the discretion of the faculty as an academic honor to a member of the graduating class of Barnard College, who, in the opinion of the faculty, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree.

WILLIAM MASON SCHOLARSHIP. The William Mason Scholarship in music is awarded periodically upon the recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. The value of the scholarship may not exceed the income of the fund.

MARGARET MEYER GRADUATE SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1952 with a bequest from the late Annie Nathan Meyer in memory of Margaret Meyer Cohen, Class of 1915. This was originally established in 1923 as an annual gift. The income is to be awarded to a student in the graduating class for instruction in secretarial work.

PRIZES

The following prizes are awarded annually, on the recommendation of the appropriate departments of the Faculty of Barnard College, in accordance with the special conditions named below. No prize will be awarded to any student who falls below a grade of C in any course during the year in which she is a competitor.

1954 ALLEN PRIZE IN MATHEMATICS. A prize of \$600 which will be awarded in February or June of 1954, on the recommendation of the Department of Mathematics, to a qualified senior whose major field is mathematics or physics. The recipient will be selected on the basis of scholarship and character. Indications of a promising career, and the student's plans for her future, will be among the factors given consideration by the committee in making the selection. A needy student shall receive the entire sum toward tuition and other expenses of graduate work in mathematics or physics at an institution selected by the student. A student not in need shall receive \$100. In case no candidate is considered sufficiently well qualified, the award will be deferred until the following year.

ESTELLE M. ALLISON PRIZE. A prize consisting of the income of a fund of \$1,000, founded in 1937 with a bequest from the late Estelle M. Allison, is awarded annually to a student for excellence in literature.

MARY E. ALLISON PRIZE. A prize consisting of the income of a fund of \$1,000, founded in 1937 with a bequest from the late Estelle M. Allison, in memory of her mother, Mary E. Allison, is awarded annually to a student for general excellence in scholarship.

FRANK GILBERT BRYSON MEMORIAL PRIZE. A prize consisting of the income of a fund of \$3,000, founded in 1931 with a bequest from the late Ella Fitzgerald Bryson, Class of 1894, in memory of Frank Gilbert Bryson, is awarded annually to a member of the graduating class who has given conspicuous evidence of unselfishness during her college course.

THE COLUMBIA UNIVERSITY PRESS PRIZE. A prize offered annually by the Columbia University Press to the member of the Sophomore Class who has done the best writing for *Barnard Bulletin*. The prize is a copy of the *Columbia Encyclopedia*.

DEAN PRIZE IN GERMAN. A prize consisting of the income of \$1,000, one-fifth of a fund of \$5,000, established in 1925 by Mr. Edward D. Adams for the promotion of the study of German language and literature in Barnard College, is awarded annually to that member of the senior class at graduation who has throughout her course done the best work in German language and literature.

THE JENNY A. GERARD MEDAL. The Jenny A. Gerard Gold Medal, given in 1908 by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the undergraduate student of American birth writing the best essay on American History.

VIRGINIA C. GILDERSLEEVE PRIZE IN FRESHMAN ENGLISH. An annual prize of \$50 to that freshman who, in the opinion of the Freshman English Committee, does the best piece of writing in connection with the work of the course.

HERRMAN BOTANICAL PRIZE. A prize consisting of the income of a fund of \$1,000, founded by the late Mrs. Esther Herrman, is awarded annually to the most proficient undergraduate student in botany.

THE ELIZABETH JANEWAY PRIZE FOR PROSE WRITING. An annual prize of \$500 open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. All undergraduates who intend to enter the prize competition must notify the chairman of the English Department of their intention to do so by the first of November each year, at which time they will receive detailed instructions as to the requirements. The final manuscripts must be submitted to the chairman by the 15th of March. The prize will be given at the discretion of a board of three judges chosen by the college and the donor.

KOHN MATHEMATICAL PRIZE. A prize consisting of the income of a fund of \$1,000, founded by Mrs. S. H. Kohn, is awarded annually to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

THE ROSAMOND E. LAFFERTY PRIZE IN ORAL FRENCH. A prize of \$50 awarded annually to a junior for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner will be chosen on the basis of a ten minute disquisition to be judged by a committee including French-speaking faculty members outside the French Department. Candidates must have pursued French courses continuously during their college course.

THE WILLIAM PEPPERELL MONTAGUE PRIZE. A prize consisting of the income of a fund of \$3,000, established in 1949 by Dr. William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. The prize will be awarded biennially, on the recommendation of the Department of Philosophy, for the best essay on the significance of what Albert Schweitzer calls "reverence for life" in its bearing upon the neglected ethical problem of the nature and extent of man's duty to animals.

THE HELEN PRINCE MEMORIAL PRIZE. A prize consisting of the income of \$1,200, founded in 1921 by Mr. Julius Prince in memory of his daughter, Helen C. Prince, Class of 1922, is awarded annually to an undergraduate student for excellence in dramatic composition.

PRIZE ESSAY CONTEST IN COLONIAL HISTORY. The National Society of Colonial Dames in the State of New York sponsors an annual prize essay contest open to sophomores, juniors and seniors. The first prize is \$50 and a gold medal; the second prize is a gold medal.

A topic will be selected from the field of American colonial history by the Department of History and submitted for approval to the Colonial Dames. This should be done by October of each year. Students will then write essays on the subject, which will be submitted to the Department of History and judged for literary excellence and historical accuracy. As shortly after March 1 as possible the Department will submit the best essays to the Colonial Dames for final judgment of the two prize-winners. The essays should be from 5,000 to 10,000 words in length. The awards will be announced by May 1.

KATHARINE E. PROVOST MEMORIAL PRIZE. A prize consisting of the income of a fund of \$1,000, established in 1949 in memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Comptroller of Barnard College and, at the time of her sudden death, Superintendent of Buildings and Grounds. This prize is awarded annually for superior work by an undergraduate major in economics.

CAROLINE GALLUP REED PRIZE. A prize consisting of the income of a fund of \$1,000, founded in 1916 by Mrs. William Barclay Parsons in memory of her mother, Mrs. Sylvanus Reed, for the recognition of special study in the subject of the origin of Christianity and early church history, is awarded annually to the student who shows the highest excellence in this field of work. The award is made partly on the basis of an examination and partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion.

SPERANZA PRIZE IN ITALIAN. A prize consisting of the income of a fund of \$1,000, founded by a former student in memory of the late Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, is awarded annually to a student for excellence in Italian.

JEAN WILLARD TATLOCK MEMORIAL PRIZE. A prize consisting of the income of a fund of \$1,250, founded in 1917 by her friends in memory of Jean Willard Tatlock, Class of 1895, is awarded annually to the undergraduate student most proficient in Latin.

VON WAHL PRIZE. A prize consisting of the income of a fund of \$1,300, founded in 1915 in memory of Constance von Wahl, Class of 1912, President of the Undergraduate Association, is awarded annually to a student for excellence in zoölogy, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded.

The following prizes of Columbia University are by their terms open to students of Barnard College:

BENNETT PRIZE. A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in Political Science. The subjects for 1954-55 are: "The Function of the Military in the Formation of American Foreign Policy;" "The Politics of the So-called Bricker Amendment to the Constitution of the United States;" "Recent Proposals for Changing the Methods of Nominating Presidential Candidates." For additional information consult Professor Truman.

THE BUNNER MEDAL. The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. The award will be made by a committee to be appointed by the President. The subject for 1954-55 is: "A Revaluation of Van Wyck Brooks's *The Ordeal of Mark Twain*." For additional information consult Professor Everett.

EARLE PRIZE IN CLASSICS. A prize of \$50, established in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900, and Professor of Classical Philology from 1900 to 1905, is awarded annually to a candidate for the degree of Bachelor of Arts, partly on the basis of a special examination, partly on the basis of consistently good work in Greek and Latin courses.

Students are urged to do much of their work for the examination during the preceding summer vacation. For further information consult Professor Benedict.

THE CAROLINE PHELPS STOKES PRIZE. The Caroline Phelps Stokes Prize of \$40 is awarded annually at Commencement to that student who, having been regularly enrolled in Columbia College, Barnard College or Teachers College as a candidate for an academic degree, for not less than two sessions, winter or spring, shall be deemed to have written the best essay upon an assigned topic bearing upon the rights

of man. Topics for 1954-55 are as follows: "National Interest and the United Nations Declaration of Human Rights;" "Security, Loyalty, and Individual Rights in Government Employment." For additional information consult Professor Nobbe.

VAN RENSSELAER PRIZE. To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details, consult Professor Van Doren.

WOODBERRY PRIZE. To be awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages, unless a single poem is submitted in excess of that amount. Established by the Woodberry Society as a memorial to the late George Edward Woodberry. If in the opinion of the committee of judges, no poem submitted in any prize year is worthy of this award, the prize will not be given. Value of prize about \$100. For additional details, consult Professor Campbell.

The following prize is also open to Barnard students:

SUSAN HUNTINGTON VERNON PRIZE. This prize is awarded annually, on recommendation of the Executive Officer of the Department of Spanish, for excellence in Spanish to the best student of the graduating class among the following colleges: Barnard, Mt. Holyoke, Radcliffe, Smith, Vassar, and Wellesley. The value of the prize is about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943.

STATISTICS

	1889 to 1890	1899 to 1900	1904 to 1905	1909 to 1910	1914 to 1915	1919 to 1920	1924 to 1925	1929 to 1930	1934 to 1935	1939 to 1940	1944 to 1945	1945 to 1946	1949 to 1950	1950 to 1951	1951 to 1952	1952 to 1953	1953 to 1954
UNDERGRADUATES, REGULAR:																	
Seniors .....	....	40	83	62	*123	87	*126	227	*181	*164	*208	208	*260	213	232	*255	*238
Juniors .....	....	40	71	122	110	190	259	237	220	191	314	360	277	320	333	290	323
Sophomores .....	....	37	75	109	191	193	234	247	226	210	314	360	272	287	233	238	274
Freshmen (regular)	4	54	110	188	240	224	271	311	267	246	324	311	271	215	230	253	294
Freshmen (partly regular)	10	....	....	....	....	....	..57	..54	..103	..143	..56	..40	..17	..23	..14	..13	..3
Unclassified students .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
SPECIAL STUDENTS:																	
Matriculated	14	171	339	481	664	694	947	1076	997	954	1216	1279	1097	1058	1032	1049	1132
Nonmatriculated .....	....	21	27	24	32	39	..33	..28	..29	..31	..21	..27	..15	..8	..14	..25	..22
Departmental (1889-1896)	22	....	....	30	32	22	....	....	....	....	....	....	....	....	....	....	....
Music students .....	....	41	....	....	5	....	....	....	....	....	....	....	....	....	....	....	....
(1896-1904, 1914-1915) .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
GRADUATE STUDENTS (1890-1900)	22	62	27	54	69	61	33	28	29	31	21	27	15	8	14	25	22
TOTAL STUDENTS PRIMARILY REGISTERED AT BARNARD .....	....	82	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
STUDENTS FROM COLUMBIA UNIVERSITY	36	315	366	535	733	755	980	1104	1026	985	1237	1306	1112	1066	1046	1074	1154
STUDENTS FROM TEACHERS COLLEGE .....	....	18	62	59	28	80	153	234	163	92	77	83	94	94	62	72	67
TOTAL STUDENTS FROM OTHER PARTS OF THE UNIVERSITY .....	....	18	139	259	136	118	203	296	184	112	89	98	98	96	63	72	67
TOTAL REGISTRATION	36	333	505	794	869	873	1183	1400	1210	1097	1326	1404	1210	1162	1109	1146	1221
DEGREES CONFERRED:																	
A.B. .....	....	39	83	88	141	139	198	247	221	206	270	276	303	257	267	285	266
B.S. (1909-1918) .....	....	18	....	2	8	5	....	....	....	....	....	....	....	....	....	....	....
A.M. (1898-1900) .....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ph.D. (1895-1900) .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TOTAL BACHELOR'S DEGREES: CONFERRED 1893-1954: A.B., 1051; B.S., 77.

*The figures for seniors include students counting the first year in a professional school of the University in place of the fourth year at Barnard as follows:

1913-14	18 in Education	1924-25	1 in Medicine	1938-39	1 in Architecture,	1947-48	2 in Medicine,
1914-15	3 in Education	1926-27	2 in Medicine	1939-40	1 in Medicine	1948-49	1 in Law
1916-17	1 in Journalism	1927-28	1 in Architecture,	1942-43	1 in Business,	1949-50	1 in Medicine
1921-22	1 in Journalism	1 in Business,	1 in Medicine	1943-44	1 in Law	1952-53	1 in Law
1922-23	1 in Journalism	2 in Journalism	1 in Architecture,	1944-45	1 in Law	1953-54	2 in Medicine
1923-24	2 in Journalism,	1 in Architecture,	4 in Law	1946-47	1 in Medicine		1 in Law,
1 in Medicine	1 in Journalism	2 in Medicine	2 in Medicine				3 in Medicine

Courses of Instruction
and Departmental Statements

DEPARTMENTAL STATEMENTS

DESIGNATION OF COURSES. Odd numbers indicate winter session courses, even numbers those offered in the spring session. Year courses are marked with consecutive odd and even numbers.

R courses: Odd numbers preceded by prefix "R" indicate a course repeated in the spring session that is normally given in the winter session. Even numbers preceded by prefix "R" indicate a course offered in the winter session that is normally given in the spring session.

Indivisible courses are marked with a hyphen between the numerals (History 1-2) and are regarded as full-year courses of which the first half is assumed to be prerequisite for admission to the second half. No credit will be given for work dropped at the midyear or before the completion of the course without the written consent of the instructor and the Committee on Programs and Standing.

Divisible courses are marked with a comma between the numerals (English 1, 2). Of these courses the first half may be taken separately but is ordinarily assumed to be prerequisite to the second half. *Therefore, admission to the second half of a divisible course is granted only when all prerequisites have been met and the written consent of the instructor obtained.*

The section number is indicated by a Roman numeral in parentheses after the hour [MWF 9(I), 10(II)].

Courses at Columbia University open to Barnard students are marked with an asterisk (*).

Courses prefixed by the letters G.S. are given in the School of General Studies. *A course taken in General Studies must be paid for by the student herself, over and above her Barnard tuition, unless it is an integral part of her major or her over-all plan of study.*

Teachers College courses may be taken by qualified seniors with the consent of the Dean of Student Administration and the Registrar of Teachers College.

EXAMINATION GROUPS. Courses in Barnard College are arranged in examination groups in order to avoid conflicts on the examination schedule. These groups are indicated by Arabic boldface numerals in brackets immediately following the class hour. Group [0] includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group, except group [0], *without a written statement from one or the other instructor that a conflict examination will be given.* This statement must be filed by the student in the Registrar's Office.

WITHDRAWAL OF COURSES. If a course has not been elected by at least three candidates for the degree, it may be withdrawn by the instructor.

GRADUATE COURSES. Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the Barnard department and the Dean of Student Administration. Descriptions of these courses will be found in the University announcements.

LANGUAGE COURSES. Certain foreign languages not offered at Barnard are available at Columbia University. They are open to qualified Barnard students with the approval of advisers and of the University authorities.

INTERDEPARTMENTAL MAJORS

I. AMERICAN CIVILIZATION

This program is supervised by the Committee on American Civilization:

¹BASIL RAUCH, Ph.D., Professor of History, *Chairman*

HENRY B. PARKES, Ph.D., Visiting Professor of History, *Acting Chairman*

JOHN A. KOUWENHOVEN, Ph.D., Professor of English

BERNARD BARBER, Ph.D., Assistant Professor of Sociology

The purpose of the program is to develop understanding of American civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the Senior seminar. As a public service the lecture series in the latter course is made available to the Barnard College student body and community.

A major in American Civilization. Students who wish to major in American Civilization should obtain from the Chairman of the Committee an application form which is to be filled out and returned to him before March 1 of the sophomore year. Applicants must show special qualifications for the major by their performance in several of the required courses. By the end of the sophomore year, applicants should complete *History 3-4*, and at least two of the required basic courses designated below. In the junior year majors should take the remaining two basic courses and *American Civilization 1, 2*, and in the senior year the two advanced courses designated below and *American Civilization 3, 4*.

Required Courses:

History 3-4, Introduction to the History of American Civilization.

Two basic courses in social sciences, a full year each, selected from the following:

Anthropology 3, 4, Introduction to Cultural Anthropology; or 3 and 18, Problems of Race; or 4 and 18; or 9-10, The Study of Language

Economics 1-2, Introductory Economics

Geography 1-2, Physical and Economic Geography; or 15, 16, Regional Economic Geography of North America

Government 3, 4, An Introduction to Comparative Government; or 5, 6, An Introduction to American Government

Psychology 1, Introduction to Psychology, and 24, Applied Psychology

Sociology 1-2, Introduction to Sociology

¹ Absent on leave, 1954-55.

Two basic courses in humanities, a full year each, selected from the following:

English 79, 80, *American Literature from the Colonial Period to the Present Day*; or 87, 88, *American Writers and European Literature*

Fine Arts 1–2, *Introduction to the Study of Fine Arts*

Philosophy 1, *Introduction to Philosophy* and 4, *Metaphysics*; or 1 and 5, *Logic*; or 1 and 22, *Ethics*.

Religion 9, 10, *The Bible*; or 57, 58, *History of Religion in America*

One full-year advanced course in one of the following social sciences in which a basic course was taken:

Anthropology 51, 52, *Seminar: Problems in Anthropology*

Economics 7, 8, *Development of the American Economy*; 19, 20, *Labor Relations and Personnel Management*, or any two of the following: 15, *Public Finance and Fiscal Policy*; 24, *International Economics*; 27, *Development of Economic Thought*; 29, *Economic Fluctuations*; 32, *Comparative Economic Systems*

Geography 7, *Principles of Political Geography*, and 12, *Natural Resources: Their Use and Misuse*, or

Geology 28, *Geomorphology of the United States* which may be substituted for *Geography* 12 by students who have taken *Geology* 1

Government 11, 12, *International Relations*; or 13, *Contemporary American Politics*, and 18, *The Politics of the Far East*; or 21, 22, *American Political Parties*; or 25, 26, *The Constitution of the United States*; or 31, 32, *The History of Political Thought*

History 33, 34, *American Colonial History*; or 83, 84, *History of United States Foreign Relations*, or 85, 86, *Studies in Twentieth Century American History*

Psychology 37, *Social Psychology*, and 26, *Psychology of Personality*

Sociology—any two of the following: 31, *The Family*; 33, *The Community I. Rural-Urban Sociology*; 34, *The Community II. Population, Ethnic and Minority and Intergroup Relations*; 35, *American Social Classes*; 38, *Comparative Social Institutions*; 41, *Recent Sociological Theories*; 42, *Social Problems and Social Movements*

One full-year advanced course in one of the following humanities in which a basic course was taken:

English—two semesters selected from the following: 81, 82, *Major American Writers*; 83, *Modern Poetry and the Allied Arts*; 85, 86, *American Vernacular Literature and Art*

Fine Arts 78, *Modern European and American Painting*, and 179, *American Art*

History 43, *The History of Education in the United States*; or 58, *History of Religion in America*

Philosophy 61–62, *The History of Philosophy*; or 71, 72, *American Philosophy*

Religion 19, 20, *The Philosophy of Religion*; or 25, *The Ethics of the Bible and the Judeo-Christian Tradition and Their Relation to Contemporary Issues*, and 31, *Religious Interpretations of History*; or 45, 46, *History of Religious Thought in the Christian West*

1, 2. Junior Readings. 6 points. MISS KAR.

Students will read important books dealing with subjects which they do not study in basic courses. Brief written reports for discussion in the meetings. The

reading list for this course should be obtained by majors at the end of the sophomore year in preparation for entering the course in the fall. At the end of the Spring Session a summer reading assignment will be made for completion before entering the Senior Seminar.

Required of all junior majors in American Civilization. Open to others by special permission of the Chairman of the Committee. Bi-weekly meetings of two hours. Hours to be arranged. [0]

3, 4. Senior Seminar. 8 points. PROFESSOR PARKES.

A theme will be selected each year which will require the use of materials drawn from several of the disciplines dealing with American experience. Students will conduct individual research and writing programs on a particular aspect of the general theme, and present their results to the seminar. The public lecture series in American Civilization is a part of this course, and its members will attend a conference with each lecturer.

Required of all senior majors in American Civilization. Open to others by special permission of the Chairman of the Committee. M 4-6 and frequent conferences. [0]

Major Examination:

At the end of the senior year majors in American Civilization will take an examination conducted by the Committee on American Civilization.

II. BRITISH CIVILIZATION

This program is supervised by the Committee on British Civilization:

SIDNEY A. BURRELL, Ph.D., Assistant Professor of History, *Chairman*

DAVID A. ROBERTSON, Ph.D., Associate Professor of English

¹CHILTON WILLIAMSON, Ph.D., Associate Professor of History

Open to students who wish to devote particular attention to all aspects of British civilization in the home islands and in the Empire-Commonwealth as well as to the interrelations of both with European civilization as a whole.

A major in British Civilization. A student who wishes to major in British Civilization must obtain from the Chairman of the Committee an application form which is to be filled out and returned to him before March 1 of the sophomore year. By this time the applicant should have completed or be in the process of completing *History 1-2*. The applicant should then plan, in consultation with the Chairman, a program of study which will contain the following three required courses:

History 11-12, England from the Norman Conquest to the Twentieth Century

History 35, 36, History of the British Empire

British Civilization 3, 4, Senior Seminar in British Civilization

In addition each student should select in accordance with her interests a minimum of three courses in the following groups:

One basic course must be selected from the following:

Economics 27, Development of Economic Thought

Government 32, History of Political Thought

¹ Absent on leave, Spring Session.

A second basic course must be selected from these additional offerings:

English 39, 40, Introduction to English Literature

English 61, 62, Shakespeare

English 75, The Victorian Age in Literature

Philosophy 68, Seventeenth and Eighteenth Century British Philosophy and Its Influence

Religion 126, Formative Motifs in Protestant Thought

A third course must be taken from *either* of the two groups listed above or from the following graduate courses:

**Economics 245, The Economy of Britain*

**English 281–282, Science and Imagination in the Seventeenth and Eighteenth Centuries*

**G.S. History 159B–160B, The History and Civilization of India*

**History 161–162, British History since 1760*

**History 252, Puritanism and Nonconformity*

**History 263–264, Canada in North American History*

[3, 4. Senior Seminar. 8 points. PROFESSOR PEARDON and Associates.

Not given in 1954–55.]

Individual research and the writing of papers on topics grouped around some central theme in British history and civilization.

Major Examination:

At the end of the senior year majors in British Civilization will take an examination conducted by the Committee on British Civilization.

III. AREAS STUDIES AND INTERNATIONAL RELATIONS

Officer in charge for 1954–55, PROFESSOR PEARDON

A. FOREIGN AREAS STUDIES

A major in Foreign Areas Studies is available to a limited number of qualified students whose applications for admission are approved by the Committee in charge. Freshmen anticipating such a major should consult the Freshman Adviser.

Based on a foundation of general courses in the social sciences and the command of at least one foreign language, Foreign Areas Studies are designed to enable students to concentrate on the civilization of some one area or country of the world.

Students who wish to major in Foreign Areas Studies must satisfy the foreign language requirement (page 31) before becoming majors. In their freshman and sophomore years they should also take at least 12 points in the social sciences.

After being accepted as majors, students will be expected to specialize in the study of one country or region. For this purpose they will continue their work in language and will take such courses in the literature, fine arts, geography, history, and institutions of their chosen area as may be determined in consultation with their adviser. Wherever possible, these courses will include a seminar in the senior year.

In addition to the language courses given at Barnard, courses in Arabic, Chinese, *Hebrew, Japanese, Portuguese, Russian, and other languages are open to Barnard students at Columbia.

* Scholarships are available to Barnard students for work in Hebrew in General Studies on application to Dean Hacker.

Areas of concentration:

1. England. See special program in British Civilization, page 72.
2. Western Europe, with special reference to some one country, Professors Bové, Breunig, Carrié, Stabenau and others.
3. Russia, Mrs. Roosa.
4. Far East, Professor Gaston-Mahler and Mr. Hearst.
5. Latin America, Professor Florit.

B. INTERNATIONAL RELATIONS

Those students who are particularly interested in the field of international relations should major in one of the social sciences, such as economics, government, or history. The following courses are mentioned as being among those most likely to be helpful:

Economics 24; 32

Geography 5; 7; 12

Government 3, 4; 11, 12; R15; R17; 61, 62

History 1-2; 25, 26; 29, 30; 35, 36; 49, 50; 83, 84

Philosophy 69; 73

In addition to the preceding courses given at Barnard College, other courses in international relations and related fields are available at Columbia University.

OTHER INTERDEPARTMENTAL OFFERINGS

Interdepartmental program in the foundations of education and child study. See page 86.

A major in natural resources is offered jointly by the Departments of Botany and Geology-Geography. Required courses are *Botany* 1-2 and 12, *Geography* 10 and 12, *Geology* 1, 2 and 28, and a Senior Seminar in Natural Resources. All majors must take a course in Field Ecology and Conservation. So far as possible these courses should be arranged in a three or four year sequence. Other Barnard requirements must be fulfilled by courses which correlate with the major field. Further information concerning the objectives and the program of study of this major may be had from the departments concerned.

A major in economics and government. Students majoring in economics and government will be required to take:

Economics 1-2; 27, 28, and 51 or 52 (the choice to be made in consultation with the adviser). *Government* 3, 4; 5, 6, and at least one additional course in government.

Other social sciences. See departmental statements.

The major examination will consist of two three-hour examinations drawn up by the two departments.

A major in government and history. Students majoring in government and history will be required to take:

Government 3, 4; 5, 6, and at least one additional course in government. *History* 1-2, 9-10, and at least one additional course in history.

Other social sciences. See departmental statements.

A major in government and sociology. Students majoring in government and sociology will be required to take:

Government 3, 4; 5, 6, and 27, 28. *Sociology* 1-2 and at least 12 additional points in sociology.

Other social sciences. See departmental statements.

A major in economics and sociology. Students majoring in economics and sociology will be required to take:

Economics 1-2; 27, 28, and 51 or 52 (the choice to be made in consultation with the adviser). *Sociology* 1-2 and courses amounting to 12 more points in sociology and preferably one additional course in economics or in sociology. Only one introductory course may count toward the major.

Other social sciences. See departmental statements.

The major examination will consist of two three-hour examinations drawn up by the two departments.

INTERDEPARTMENTAL COURSES

1-2. General Biological Science. 6 points. PROFESSORS DEYRUP, FUNK, and WENZEL.

An introduction to the study of living organisms. An elementary course integrating basic facts, principles, and methods from the fields of botany, zoölogy, and psychology. The content of this course will be developed through lectures, discussions, and demonstrations. It may not be taken for credit by students who have had college courses in biology, botany, or zoölogy. M W F 9. [1]

Prerequisite: A laboratory course in a physical science.

4. Foundations of Language Learning. 2 points. DR. GODE.

In this course the languages of the Western world (principally French, Spanish, Italian, and German) are submitted to a comparative study with constant reference to English. The aim, never lost sight of, is the characterization of the Western languages (1) through their common dependence on the Greco-Latin linguistic tradition and (2) in their mutual differences and deviations from a shared norm. The scope of the course involves grammatical problems, a study of Latin and Greek roots as well as general historical and cultural data. Its function is (a) to prepare beginners for subsequent work in specific languages and (b) to fill in background knowledge for those already familiar with one or more of the languages discussed. T Th 9. [6]

See also *Anthropology* 9-10.

5. Man and His World. 2 points. PROFESSORS NIEBUHR, MEYER and BARACH and MRS. SHERRILL, MRS. WOODBURY, MISS NELBACH and MISS SIEGAN.

A consideration of problems of personal and social adjustment, with reading and organized discussion, for the purpose of helping students to clarify their aims, to strengthen their ideals, and to develop an attitude of coöperation with others. Given by members of the Departments of Anthropology, English, Philosophy, Religion and Sociology.

Required of all freshmen. M W 11 (I); M W 1 (II) and (III); M W 2 (IV) and (V); T Th 9 (VI); T Th 10 (VII); T Th 11 (VIII) and (IX); T Th 2 (X).

6. The Musical Expression of the Ideals of Western Culture (same as Music 12). 2 points. PROFESSORS LOUGHBOROUGH and CHERBONNIER.

A study of the dominant motifs of western European thought as illustrated and reflected in the music of the period, 1750-1954. Readings will be assigned from religious, philosophic and literary sources. Illustrations from the visual arts will supplement the course.

Not open to freshmen or music majors. Th 3-5. [13]

7-8. Colloquium on Religious Books (same as Colloquium Rel. 1-2). 8 points. PROFESSORS DILLENBERGER and HADAS.

Significant landmarks in the religious tradition of the West from the Gilgamesh Epic through the sixteenth century.

Open only to juniors and seniors. Written permission of the instructors required. Registration limited to 15. M 7:30-9:30 p.m. 708 Philosophy.

***9-10. Latin-American Seminar** (same as Latin-American Seminar 31-32 at Columbia College). 8 points. MR. DE MORELOS, with the assistance of DR. MORSE and PROFESSOR SERVICE.

A seminar which examines the mainsprings of civilization and cultural change in Latin America. Th 7:20-9 p.m. 209 Butler.

11-12. Seminar in Italian and Russian Literature of the Nineteenth and Twentieth Centuries (same as Italian 27, 28). 6 points, PROFESSOR BOVÉ and MR. ULANOV.

An examination of the striking parallels and few contrasts between the two literatures in this period. *Winter Session*: The emergence of Russian poetry based upon Italian models. Manzoni's *The Betrothed*, Tolstoi's *War and Peace* and the bourgeois ideal. Dostoevski, Leopardi and the melancholy view of human nature. The rejection of Romanticism in both countries. *Spring Session*: The conflict between liberalism and totalitarianism as reflected in the two literatures. Russian and Italian Futurism. Chekhov and Pirandello. Slavic experimentalism and Italo Svevo. Dostoevski and D'Annunzio. Literature under Fascism compared with literature under Communism. Dostoevski's vision of the totalitarian state. W 4-6.

ANTHROPOLOGY

¹GLADYS A. REICHARD, Ph.D., Professor of Anthropology,
Executive Officer

NATHALIE F. S. WOODBURY, A.B., Lecturer in Anthropology

As preparation for the major in anthropology, the department recommends as much background work as possible in the subjects required for the liberal arts degree. The student should try to complete before her junior year the requirements in history and science, particularly the introductory courses in geology, geography, and zoölogy.

A major in anthropology. Students majoring in anthropology are required to take: *Anthropology 1, 2; 3, 4*, and other courses depending upon individual interests, including some Columbia courses which may be elected with the consent of the Barnard department. The major examination is in two parts (three hours each), and is designed to test the student's ability to coördinate the work she has done in her major field. Course examinations in anthropology are waived the last semester. A reading knowledge of German is strongly recommended.

In addition to the general requirements, the following combinations of courses are suggested:

For students interested primarily in the biological aspects of anthropology: *Anthropology 18, zoölogy, genetics (either in botany or zoölogy), geography.*

For students interested primarily in the social sciences: *Anthropology 8, 17, 18, economics, geography, government, history, philosophy, psychology, religion, sociology.*

¹ Absent on leave, Winter Session.

For students interested primarily in archaeology: *Anthropology 108, ancient history, classical civilization and archaeology, geography, geology.*

For students interested primarily in the humanities: *Anthropology 9–10, 107, 108, fine arts, geography, geology, language and literature, philosophy.*

Seminars in anthropology are directed toward the special interests of the majors and others who have had at least one course in anthropology other than *Anthropology 9–10*. A seminar is held when warranted by the number of students electing it.

1, 2 (formerly 3, 4). Introduction to Anthropology. 6 points.

Winter Session: MRS. WOODBURY. *Spring Session:* PROFESSOR REICHARD and MRS. WOODBURY.

The evolution of man; race; development of ideas, forms of art, society, and religion. The application of anthropological methods to modern social problems; the development of reason; emotional attitudes determining behavior; the individual and society.

Open to all except freshmen. Lec. T Th 10. Lab (2 hours) T 2–4 or 3–5 (additional sections to be arranged if necessary), at American Museum of Natural History or at Barnard. [7]

Courses 1, 2, and 3, 4, are ordinarily given in alternate years.

[3, 4 (formerly 1, 2). Introduction to Cultural Anthropology. 6 points.
PROFESSOR REICHARD and MRS. WOODBURY.

Not given in 1954–55.]

Winter Session: Physical relationship, language, and customs of tribes of Africa and the South Sea islands. Their contribution to civilization; theories of origin and development; problems and policies of colonial government and trusteeships. *Spring Session:* The same subjects in relation to tribes of the New World (Indians of North and South America).

Open to all except freshmen.

8. Societies around the World. 3 points. MRS. WOODBURY.

An introduction to the study of society with comprehensive treatment of three non-literate groups living under varied geographical and technological conditions; includes consideration of problems of social change resulting from contacts with machine-age culture.

Open to all students; designed particularly for freshmen and sophomores; will satisfy three points of the contemporary society requirement. M W F 1. [4]

[9–10 (formerly 5–6). The Study of Language. 4 or 6 points. PROFESSOR REICHARD.

Not given in 1954–55.]

Language, thought, and behavior patterns; relationship of language to culture, especially literature; problems of translation. Examples are taken from English and the languages with which the students are familiar.

Especially recommended for freshmen, foreign students, and those interested in language and linguistic problems.

[17. Religion in Primitive Society. 2 or 3 points. PROFESSOR REICHARD.

Not given in 1954–55.]

Development of religious ideas; the effect of religion on culture, motivations, behavior, and cultural change.

Open to all except freshmen.

[18. Problems of Race. 3 points. PROFESSOR REICHARD.*Not given in 1954-55.]*

The meaning of race: biological, linguistic, economic, social, religious, political; the nation and the melting-pot; composition and distribution of world populations and their significance; population changes and causes; the basis of prejudice.

Open to all except freshmen; may be counted toward the requirement in contemporary society.

52. Seminar: Problems in Anthropology. 2 or 3 points. PROFESSOR REICHARD.

The specific subject for discussion will be determined by the interests of the students.

Open only to those who have had at least one course in anthropology other than *Anthropology 9-10*, and with the written permission of the instructor. May be taken two years in succession. Hours to be arranged.

[107. The Study of Folklore. 2 or 3 points. PROFESSOR REICHARD.*Not given in 1954-55.]*

Development of literary forms and style; mythology; the proverb, riddle, folk tale, verse and song; characters and plot. The course aims to acquaint students with little known material in folklore, and to indicate how it has been used, or may be used in writing.

Open to juniors and seniors.

108. The Art of Primitive Man. 3 points. PROFESSOR REICHARD.

Control of technique; geometrical and representative design; studies of proportion, design, line and mass, rhythm, symmetry, balance, and color; the artist and the social group; the influence of primitive art on modern art.

Open to juniors and seniors. M W 3. [10]

BOTANY

DONALD D. RITCHIE, Ph.D., Associate Professor of Botany,
Executive Officer

HELEN B. FUNK, M.S., Assistant Professor of Botany

HEINZ SELTMANN, Ph.D., Assistant Professor of Botany

MIRIAM DRESNER, B.S., Assistant in Botany

DAVID MOSES TENDLER, Assistant in Botany

A major in botany. Students majoring in botany will be required to take:

Botany. Courses 1-2, 5-6 or 7-8, and such other courses, subject to the approval of the department, as meet the particular needs and purposes of each student. Only one of the two courses, 10 and 13, may be counted toward a major.

Other fields. Other courses according to the special needs of the student.

Major students are permitted to use space in the greenhouse for practical work in plant propagation.

Natural Resources. A joint major in Natural Resources is offered by the Departments of Botany and Geology-Geography. See Interdepartmental Offerings, page 74.

1-2. General Botany. 8 points. PROFESSOR SELTMANN and Staff.

An introduction to the plant kingdom. The bacteria, algae, fungi, mosses, ferns and seed plants are studied. Topics considered include patterns of reproduction; heredity and evolution; intake, manufacture and utilization of nutrients; the relationship of the plant to its environment. Lecture materials are correlated with laboratory studies. Emphasis is placed upon the importance of plants to man. Lec. T Th 9 and Th. 1. Lab. (2 hours) T 10-12; 2-4 or Th 2-4. [6]

1a-2a. General Botany. 6 points. PROFESSOR SELTMANN and Staff.

Lectures identical with those of 1-2. No laboratory work.

To follow or parallel: a laboratory science. T Th 9 and Th 1. [6]

***G.S. Botany 3-4. Plant Geography.** 6 points. PROFESSOR LIER.

This course deals with distribution of plant life in North America at the present time, and origin and sequence in the geologic periods. The laboratory work is in the field and aims to acquaint the student with the names and associations of our common plants.

Prerequisite: *G.S. Botany 1-2 or Course 1-2.

Registration limited. Admission only on written permission of the instructor. M Th 6-6:50. 414 Pupin. *Field Work*: Hours to be arranged.

[5-6. General Morphology of Plants. 8 points. PROFESSOR SELTMANN.

Not given in 1954-55.]

Prerequisite: Course 1-2 or the equivalent. Occasional field trips are required.

7-8. Structure and Relationships of Flowering Plants. 8 points. PROFESSOR RITCHIE.

Prerequisite: Course 1-2 or the equivalent. Frequent field trips. Lec. T Th 2. Lab. (4 hours) T Th 3-5. [9]

9. Genetics. 4 points. PROFESSOR RITCHIE.

Mendelian principles of heredity, sex determination and differentiation, genetic control of development.

Prerequisite: a year of college work in either botany or zoölogy, except on written permission of the instructor. Lec. T Th 9. Lab. (4 hours) T Th 10-12. [6]

[10. Plant Culture. 3 points. PROFESSOR RITCHIE.

Not given in 1954-55.]

Lectures include discussions of the physiological and anatomical reasons for various techniques of plant propagation, and the methods through which such reasons have become known. Laboratory work, in part, involves observations and experiments on the effects of hormones, varying environmental conditions on growth and flowering, vegetative propagation, hydroponics, grafting, germination, and hereditary variation.

No previous knowledge of botany is required. This course does not satisfy the requirement of a laboratory science. Open only on written permission of the instructor.

[11. Microtechnique. 3 points. PROFESSOR FUNK.

Not given in 1954-55.]

Lecture and laboratory work in the theory and practice of fixing, sectioning, and staining plant material.

Prerequisite: *Course 1-2.*

13. Plant Resources. 3 points. PROFESSOR SELTMANN.

The origin, distribution and utilization of plants of primary economic importance. Plants considered in this course include those utilized as sources of food and beverages, woods and fibers, rubber, medicines, oils, waxes, and gums. Emphasis throughout the course is given to the relation between the use of these plants and the conservation of basic natural resources.

This course does not satisfy the requirements of a laboratory science. Lec. M W 9. Demonstrations, conferences and trips. W 10-12. [1]

14. Cytology. 5 points. PROFESSOR RITCHIE.

Study of the cell: cell wall, nucleus and cytoplasm and their inclusions, studied by means of conventional sections, special fixation, smears, vital stains, polarized light, phase microscopy, etc.

Prerequisite: at least a year of college work in either botany or zoölogy. Lec. T Th 9. Lab. (6 hours) T Th 10-12 plus 2 hours to be arranged. [6]

16. General Plant Physiology. 4 points. PROFESSOR SELTMANN.

Translocation, transpiration, photosynthesis, respiration and other aspects of plant metabolism.

Prerequisite: *Course 1-2* and at least one year of college chemistry. Lec. M W 9. Lab. (4 hours) M W 10-12. [1]

151. Introduction to Microbiology. 4 points. PROFESSOR FUNK.

Survey of structure, distribution, and activities of microörganisms in soil, water, and foods. Some attention will be devoted to industrial processes, antibiosis, causation of disease, and immunological reactions.

Prerequisites: one year of college work in botany or zoölogy and preceding or parallel, organic chemistry. Certain exceptions are allowed. Written permission of the instructor is required.

Open to juniors and seniors. Lec. M W 2. Lab. (4 hours) M W 3-5. [5]

152. Advanced Microbiology. 4 points. PROFESSOR FUNK.

Advanced cytological techniques, the growth curve, and variation in microörganisms. Study of certain natural and important groups within the true bacteria, actinomycetes, and yeasts.

Prerequisite: *Course 151* or equivalent. Written permission of the instructor is required. Lec. M W 2. Lab. (4 hours) M W 3-5. [5]

159. Microbial Physiology. 3 or 5 points. PROFESSOR FUNK.

General physiology of microörganisms.

Written permission of the instructor is required. Hours to be arranged.

161, 162. Special Problems in Microbiology, Morphology, and Physiology. 2 to 8 points. Members of the department.

Work will be planned to suit the needs of the students after consultation with instructors. This course may be taken in successive years. Hours and credit by arrangement. [0]

CHEMISTRY

HELEN R. DOWNES, Ph.D., (Cantab.), Professor of Chemistry,
Executive Officer

EDWARD J. KING, Ph.D., Associate Professor of Chemistry

EMMA D. STECHER, Ph.D., Associate Professor of Chemistry

LUCILLE H. ALTSCHUL, Ph.D., Instructor in Chemistry

PRISCILLA A. MAREK, M.S., Instructor in Chemistry

SUZANNE MARKOVITS, A.B., Assistant in Chemistry

EDITH RICHMOND, A.B., Assistant in Chemistry

MARILYN WURTZEL, B.S., Assistant in Chemistry

FRANCES DUNN, A.B., Research Assistant in Chemistry

A major in chemistry. A student majoring in chemistry must take:

Chemistry. Courses 1–2; 23, 24; 41, 42 and 99. Courses 105, 106 and 107 are strongly advised.

Other fields. *Physics* 3–4 should be taken as early as possible. *Mathematics* 1 and 22 must be completed before taking quantitative analysis. A reading knowledge of German must be acquired before taking the second semester of organic chemistry. Chemistry majors are strongly advised to take a year of calculus and to acquire a reading knowledge of French.

Majors who complete a program prescribed by the American Chemical Society receive an accrediting certificate from the Society. Besides the courses required of all chemistry majors, these students must take Courses 105, 106 and 107, at least 4 points of advanced lectures and 2 points of advanced laboratory.

1–2. General Elementary Chemistry. 8 points. PROFESSOR DOWNES, DR. ALTSCHUL, MISS MAREK, MISS MARKOVITS and MISS WURTZEL.

Lectures on the chemistry of inorganic compounds, with emphasis on fundamental chemical principles and theories. A brief introduction to organic chemistry.

For students with no previous chemistry: Lec. T Th 9 Th 1 and a recitation hour F 1 or S 10. Lab. M T W or Th 2–4:30. [19]

For students with high school chemistry: Lec. T Th 10 and a recitation hour F 1 or S 10. Lab. M T W or Th 2–4:30. [19]

1a–2a. General Elementary Chemistry. 6 points. PROFESSOR DOWNES, DR. ALTSCHUL and MISS MAREK.

Lectures and recitations identical with those of 1–2. No laboratory work.

Prerequisite: preceding or parallel, a laboratory science. Lec. T Th 9 or 10 and a recitation hour F 1 or S 10. [19]

23. Qualitative Analysis. 6 points. PROFESSOR KING and MISS RICHMOND.

Lectures on solutions of electrolytes and ionic equilibria. The laboratory work consists of qualitative analysis on a semi-micro scale.

Prerequisite: Course 1–2, *Mathematics* 1 and preceding or parallel, *Mathematics* 22. Laboratory deposit, \$10. Lec. M W F 10. Lab. (a minimum of 6 hours) T Th 9–12 or 2–5. [2]

24. Quantitative Analysis. 6 points. PROFESSOR KING and MISS RICHMOND.

An introduction to basic quantitative techniques.

Prerequisite: Course 23. Laboratory deposit, \$15. Lec. M W F 10. Lab. (a minimum of 8 hours) M W 2–6 or T Th 2–6. [2]

26. Quantitative Analysis, Special Course. 6 points. PROFESSOR KING and MISS RICHMOND.

This course is intended for students who are not chemistry majors and who

have not taken *Course 23*. The third lecture hour is used for further discussion of the principles of ionic equilibria.

Prerequisite: *Course 1-2*. Laboratory deposit, \$15. Lec. M W F 10. Lab. (a minimum of 6 hours) M W 2-5 or T Th 2-5. [2]

41. Organic Chemistry. Lectures (*41a*, 4 points) and laboratory (*41b*, 2 points). PROFESSOR STECHER, DR. ALTSCHUL and MISS MAREK.

Lectures on the typical reactions of aliphatic compounds with a short introduction to aromatic chemistry. Laboratory work in fundamental organic preparations. This course satisfies the minimum requirement for medical school.

Prerequisite: *Course 1-2*. Laboratory deposit, \$15. Lec. M W F 9 and Th 1. [1] Lab. (a minimum of 6 hours) T Th 9-12 or 2-5. [0]

42. Organic Chemistry. Lectures (*42a*, 4 points) and laboratory (*42b*, 2 points). DR. ALTSCHUL and MISS MAREK.

A continuation of *Course 41*. Lectures emphasize aromatic chemistry and include some material on natural products and modern theories. The laboratory work includes semi-micro preparations and an introduction to qualitative organic analysis.

Prerequisite: *Courses 1-2, 41* and, except with special permission, *23, 24*. A reading knowledge of German is required for chemistry majors. Laboratory deposit, \$15. Lec. M W F 9 and Th 1. [1] Lab. (a minimum of 6 hours) T Th 9-12 or 2-5. [0]

63, 64. Advanced Laboratory Course. 4 or 6 points. PROFESSORS DOWNES, STECHER, and KING.

Conferences and laboratory work in the fields of advanced organic or inorganic synthesis or of quantitative inorganic, organic, or physiological chemistry.

Open to students who have completed the major requirements except *Course 99*. Laboratory deposit, \$15. Laboratory hours to be arranged. [0]

99. Conferences in Chemistry. 2 points. Members of the department.

Readings and discussion of selected topics.

Required of majors in their senior year. F 3-5. [0]

105, 106. Physical Chemistry. 6 points. PROFESSOR KING.

A course in chemical principles covering the states of matter and the phase rule; electrochemistry; chemical kinetics; elementary thermodynamics and chemical equilibrium.

Except by special permission, chemistry majors must elect *Courses 107, 108* parallel.

Prerequisite: *Courses 1-2; Physics 3-4* and *Mathematics 31-32*. Lec. M W F 11. [3]

107. Physical Chemistry Laboratory. 3 points. PROFESSOR KING.

Experiments illustrating the physico-chemical approach to the study of liquids and gases, thermochemistry, chemical and phase equilibria, chemical kinetics, electrochemistry and radiochemistry. Except by special permission chemistry majors must take this course parallel to *105*.

Prerequisite: *Courses 23, 24, 105* (parallel); *Physics 3-4; Mathematics 31-32*. Laboratory deposit, \$15. Lab. (a minimum of 6 hours) T Th 2-5. [0]

108. Advanced Physical Laboratory. 3 points. PROFESSOR KING.

Projects of an extended nature which may be suggested by recently published work. Lectures on instrumental methods.

Prerequisite: *Courses 107, 106* (parallel). Laboratory deposit, \$15. Lec. T 2. Lab. (a minimum of 5 hours) T 3-5, Th 2-5. [0]

137, 138. Problems in Chemistry. 4, 6, or 8 points. PROFESSORS DOWNES, KING, and STECHER.

Advanced individual laboratory projects for students who have completed the major requirements except *Course 99*. Laboratory deposit, \$15 each session. Hours and credit by arrangement. [0]

145. Organic Chemistry, Advanced Course. 3 points. PROFESSOR STECHER.

Advanced topics including modern theories of the mechanisms of organic reactions and the chemistry of some natural products.

Open only to students who have completed the major requirements except *Course 99*. Lec. M W F 1. [4]

150. Physiological Chemistry. 3 points. PROFESSOR DOWNES.

A course dealing with the chemistry of the living cell, the raw materials of cell metabolism and intermediary metabolism. The quantitative laboratory work associated with this course is given as *Course 64*.

Prerequisite: *Courses 23, 24; 41–42 and Zoölogy 1–2*. Lec. M W 1 and Th or F 2. [5]

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to specially qualified seniors. A description of the courses will be found in the Announcement of the Faculty of Pure Science. The following courses are suggested:

***156. Quantitative Organic Analysis.** 6 points.

***177. Methods of Chemical Analysis for Vitamins and Other Food Constituents.** 6 points.

CLASSICAL CIVILIZATION

See Greek and Latin

ECONOMICS

¹RAYMOND J. SAULNIER, Ph.D., Professor of Economics

MARION HAMILTON GILLIM, Ph.D., Associate Professor of Economics,
Acting Executive Officer

¹CLARA ELIOT, Ph.D., Assistant Professor of Economics

ROBERT LEKACHMAN, Ph.D., Assistant Professor of Economics

ROSEMARY ARNOLD, A.B., Instructor in Economics

DOROTHY WYNNE, A.B., Lecturer in Economics

—————, Assistant in Economics

A major in economics. Students majoring in economics will be required to take:

Economics 1–2, 27 or 28, and 51, 52. Courses 5–6, or 7–8, and 17, 18 are strongly recommended.

Major examination: a three-hour written examination, in addition to the seminar for seniors, which requires a term paper in the first semester. Majors will also take course examinations.

Other social sciences. In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 28 points in economics, courses amounting to 12 points in two of the following departments, as selected

¹ Absent on leave, 1954–55.

in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology.

See *Interdepartmental Offerings*, page 74.

1-2. Introductory Economics. 6 points. PROFESSOR GILLIM and MRS. ARNOLD.

A study of the central problems of our economic system. *Winter Session:* How individuals' incomes vary and their relation to education, occupation and other factors; how businesses and labor groups are organized; the rôle of government, with particular reference to raising revenues, planning expenditures and providing social services; how the level of national income is governed by spending, saving and investment activities; how our monetary and banking system works and its relation to inflation and deflation. *Spring Session:* How our central banking system works and its relation to economic stability; what can be done to lessen the ups and downs of business; how our policies of trade and foreign investment relate to world prosperity; the counter claims of conflicting economic systems—the enterprise system, “planned economy,” socialism and communism. *For all except freshmen:* M W F 10(I); 2(II); T Th 9:10–10:25(III); *for freshmen and sophomores:* M W F 9(IV). [18]

[3. Economic Problems of the Consumer. 2 or 3 points. PROFESSOR ELIOT.

Not given in 1954–55.]

[4. Personal Finance. 2 or 3 points. PROFESSOR ELIOT.

Not given in 1954–55.]

[5-6. General Economic History. 6 points. MRS. ARNOLD.

Not given in 1954–55.]

7-8. American Economic History. 6 points. MRS. ARNOLD.

A survey of economic development from the colonial period to the New Deal: the adaptation of European institutions and ideologies to the American situation; changing patterns of mercantile, industrial, finance and welfare capitalism; the rôle of government and private enterprise at each period; implications for current economic and social policy.

Open to all except freshmen. M W F 1. [4]

[9. Money and Banking. 3 points. PROFESSOR LEKACHMAN.

Not given in 1954–55.]

15. Public Finance and Fiscal Policy. 3 points. PROFESSOR GILLIM.

A study of our tax, expenditure, and debt systems, including a discussion of federal, state, and local fiscal relations. Analysis of current budgetary problems. The rôle of fiscal policy in achieving desired levels of employment, prices, and income.

Prerequisite: *Course 1-2* or the equivalent. M W F 11. [3]

17, 18. Introductory Statistics. 6 points. PROFESSOR GILLEM.

Winter Session: The class will make a survey involving the collection, editing, tabulation, presentation, and analysis of statistical data. Course work and laboratory exercises will deal with graphic presentation; the frequency distribution and its descriptive measures; linear correlation. *Spring Session:* The making and interpretation of index numbers; the analysis of time series; non-linear correlation; and some applications to economic and social data of the normal curve of error.

Open to all except freshmen. *Course 17* is a prerequisite of *Course 18*. M W 9 and two hours of laboratory work: T 3-5 or W 3-5. [1]

19, 20. Labor Relations and Personnel Management. 6 points. MRS. ARNOLD.
Winter Session: The present position and policies of organized labor viewed in the perspective of a changing economic, political and legal environment. *Spring Session:* Selected problems in collective bargaining and personnel administration. Student projects based on field work and case studies.

Open to all except freshmen. *Winter Session:* M W F 10. [2] *Spring Session:* M W 10, and additional hours for field work to be arranged. [2]

In-Service Training Program: A limited number of opportunities for on-the-job training are offered in connection with this course. Additional points will be credited for such work under *Economics 61, 62*. Students wishing to participate must plan their program with the instructor *before registration*.

24. International Economics. 3 points. PROFESSOR GILLIM.

A survey of international monetary and trade problems. The mechanisms and theory of international exchange. The operation of the international trading system with particular reference to the position of the United States and Britain in the world economy. Foreign economic policy. International organizations, including the International Monetary Fund, the International Bank for Reconstruction and Development, the International Trade Organization, the European Coal and Steel Community.

Prerequisite: *Course 1-2* or the equivalent. M W F 11. [3]

27. Development of Economic Thought. 3 points. PROFESSOR LEKACHMAN.

A systematic presentation of the development of economic thought beginning with Smith, continuing with Ricardo, Malthus, and Mill, and culminating in the work of Marshall in England and J. B. Clark in this country. There will be an attempt to relate the work of each man to the persistent problems of his time. Considerable attention will also be devoted to the intellectual reaction to classical theory represented by Marx and Veblen. Readings will be assigned in original texts.

Prerequisite: *Course 1-2*. T 2, Th 2-4. [9]

28. Economic Analysis. 3 points. PROFESSOR LEKACHMAN.

Building upon the historical basis of earlier economic thought, this course will include the major topics of current economic theory: the neo-classical explanations of value, distribution, and competitive price; Chamberlin's theory of monopolistic competition; and the modern theory of demand. This part of the semester's work will be devoted largely to an analysis of the individual firm and industry. The second part will consider the Keynesian theory of employment, both as a tool of economic analysis and as a basis for governmental policy. Current problems will be stressed.

Prerequisite: *Course 1-2*. T 2, Th 2-4. [9]

29. Economic Fluctuations. 3 points. PROFESSOR LEKACHMAN.

Lectures and discussions center upon three topics: how to measure business cycles, how to explain them, and how to control them by appropriate public policies.

Prerequisite: *Course 1-2*. T Th 10:35-11:50. [7]

32. Comparative Economic Systems. 3 points. PROFESSOR LEKACHMAN.

A description of the economic problems of the United States, England and Russia, and a comparison of the economic organization of these countries with abstract conceptions of capitalism and socialism.

Open to juniors, seniors and to sophomores by special permission. T Th 10:35-11:50. [7]

51, 52. Economics Seminar. 6 points. PROFESSOR LEKACHMAN.

Required for senior majors. Reading, reports and discussion. W 3-5. [0]

61, 62. Studies in Economics. 1 or 2 points. Members of the department.

Additional credits may be obtained in this course for supervised work done in connection with some other course in economics. Special reports, a term paper or the completion of supervised field work is required. The course may be repeated. [0]

63, 64. Statistical Projects. 2 to 6 points. ———.

An opportunity for conducting individual research projects in economics or social studies. Experience in gathering and analyzing data, possible field work, or supervised work with off-campus research organizations. Frequent individual conferences.

Prerequisite: *Course 17* and permission of the instructor. Hours to be arranged. [0]

[123, 124. Financial Institutions. 6 points. PROFESSOR SAULNIER.

Not given in 1954-55.]

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. A description of these courses will be found in the Announcements of the Faculty of Political Science and the Graduate School of Business. Students should consult their major adviser in making course selections.

EDUCATION

For students interested in teaching, the following interdepartmental program in the foundations of education and child study has been set up. *These courses do not constitute a major.* Students interested in registering for them (with the exception of *Psychology 27* and *28*) must have the written permission of Dean McGuire. Practice teaching at the Dalton Schools will be available for those who are qualified. Three points of college credit will be allowed for two mornings or two afternoons a week during one semester. Open to all except freshmen.

(See also *Psychology*, Major B, page 135. For graduate work in Education, see page 45.)

Education 1-2. Elementary Education. 6 points. MISS LAURIE.

A full-year course designed to equip those interested in teaching with information on the fundamental teaching skills. The first half will include common elementary school practices and the principles underlying them. Trips will be made to nearby city and country schools for observation. The second half of the year will be devoted chiefly to the development of methods and techniques of teaching children. Included will be the following: the language arts, arithmetic, the building of social study and science units, inter-group planning and teacher-pupil relationships.

Must be taken parallel to *Course 3-4*. M W F 3. [10]

Education 3-4. Practice teaching at the Dalton Schools. 6 points. MISS LAURIE, Director.

Must be taken parallel to *Course 1-2*, unless the practice teaching is at the secondary level. T Th 8:30-12:30. [0]

History 43. The History of Education in the United States. 3 points. PROFESSOR HARRINGTON.

The development of education in the United States presented and assessed against the background of political, philosophical, religious and scientific thought. Emphasis will be placed upon the social and intellectual forces which have shaped educational purposes, programs and institutions. M W F 1. [4]

Philosophy 84. The Philosophy of Education. 3 points. [11/21/55].

The values and goals of education; a study of contemporary problems against their historical backgrounds. Reading will include selections from the works of Plato, Aristotle, Milton, and Rousseau, as well as contemporary critics such as Dewey, Hutchins, Maritain, and Ortega y Gasset.

Prerequisite: *History 43.* M W F 2. [5]

Psychology 16. Educational Psychology. 3 points. PROFESSOR SARGENT.

A survey of the applications of psychology to modern educational practice and theory. Among the topics specially emphasized are motivation, social and individual development, and the appraisal and direction of learning.

Prerequisite: *Course 1 (or R1), or the equivalent.* M W F 3. [10]

Psychology 27. Psychology of Childhood. 4 points. PROFESSOR JEFFREY.

A detailed study of the practical problems of infancy and early childhood, with special emphasis on learning, emotional development, social adjustment, and modern conceptions and methods of child training and guidance. Observation of children in a nursery school for one hour each week.

Prerequisite: *Course 1 or equivalent.* M W F 10. [2]

Psychology 28. Psychology of Adolescence and Maturity. 3 or 4 points. PROFESSOR JEFFREY.

The mental, social, moral, and emotional development of adolescents and mature persons will be studied, special attention being given to such topics as guidance, adjustment, interests, motivation, home problems, sex relations, recreation, delinquency, and citizenship.

Prerequisite: *Course 27.* M W F 10. [2]

ENGLISH

JOHN A. KOUWENHOVEN, Ph.D., Professor of English
Chairman of the Department

DAVID A. ROBERTSON, JR., Ph.D., Associate Professor of English
Departmental Representative

ELEANOR ROSENBERG, Ph.D., Assistant Professor of English
Director of English A

BARRY ULANOV, Instructor in English
Secretary and Examinations Officer

W. CABELL GREET, Ph.D., McIntosh Professor of English

LORNA F. MCGUIRE, Ph.D., Associate Professor of English

¹LUCYLE HOOK, Ph.D., Associate Professor of English

ELEANOR M. TILTON, Ph.D., Associate Professor of English

FREDERICA P. BARACH, A.B., Assistant Professor of English

ROSALIE COLIE, Ph.D., Assistant Professor of English

¹ Absent on leave, 1954-55.

FRANCES K. MARLATT, A.M., J.D., Associate in English
 ROSAMOND GILDER, Associate in English
 S. PALMER BOVIE, A.M., Associate in English
 JOHAN J. SMERTENKO, Associate in English
 HOWARD TEICHMANN, A.B., Associate in English
 ADOLPHUS J. SWEET, A.M., Associate in English and
 Resident Director of the Minor Latham Drama Workshop
 MILDRED DUNNOCK URMY, A.B., M.S., Associate in English
 INEZ G. NELBACH, A.M., Instructor in English
 LORE METZGER, A.M., Lecturer in English
 ALICE KOGAN CHANDLER, A.B., Lecturer in English
 STEPHEN S. STANTON, B.S., A.M., Lecturer in English
 MARCUS KLEIN, A.B., Lecturer in English
 RICHARD NORMAN, A.M., Lecturer in English
¹JAMES L. CLIFFORD, Ph.D., Professor of English
¹MILTON SMITH, Ph.D., Professor of Dramatic Arts
¹JANE D. ZIMMERMAN, Ph.D., Professor of Speech
 NORRIS HOUGHTON, A.B., Adjunct Professor of the Drama
¹GERTRUDE IMOGENE KELLER, Instructor in Dramatic Arts
¹WOODMAN THOMPSON, A.B., Lecturer in Dramatic Arts
 FRANK RINALDI, Assistant in Drama
 RUTH RYSKIND, A.B., Assistant in English

A major in English. If you major in English you will have three principal objectives which will determine your program of studies:

1. *To develop the capacity to read with understanding a considerable number of the principal writers in English.* To aid you in this, the department requires that you shall satisfactorily complete at least a semester course (or its equivalent) dealing with: a. Chaucer, b. Shakespeare, c. Milton, d. some major writers of the 18th century, e. some major writers, English or American, of the 19th and 20th centuries, to be selected in consultation with the Departmental Representative or with your major adviser.

2. *To do additional work in one of the following special fields:* a. English Literature before 1700, b. English Literature since 1700, c. American Literature, d. Drama, e. Writing, f. Speech. (In exceptional circumstances other special fields can be arranged to meet specific needs.)

Preferably before registering for your junior year, and certainly before registering for your senior year, you must determine, in consultation with the Chairman of the Department or the Departmental Representative, which of these fields you will select and who is to be your major adviser. With your adviser, you will determine which courses you will take, in this and other departments, to round out your work in the special field.

3. *To know the main outlines of literary history and to have some knowledge of the development of the language.* As a check upon such knowledge, you will take, not later than the beginning of your senior year, an examination on the history of literature for which you must prepare in course or by independent reading; and you must either pass a semester's work in one of the courses numbered from 41 to 48 (below) or pass a special examination on Anglo-Saxon or Middle English.

¹ Officer of Columbia University giving instruction in Barnard College.

INTRODUCTORY COURSES

A1-A2. Reading, Writing, and Speaking. 6 points. PROFESSORS KOUWENHOVEN, ROBERTSON, TILTON, ROSENBERG, and COLIE, MRS. CHANDLER, and MESSRS. SMERTENKO, SWEET, BOVIE, and ULANOV.

An approach to literary skills through intensive reading, regular assignments in composition, and discussion; individual conferences with instructor each week.

Prescribed for freshmen. The only other English courses open to freshmen are Courses 20, 21-22, R21, 27, 28, any of which may be taken parallel to A1-A2. Students not thoroughly accustomed to the use of English should consult PROFESSOR ROSENBERG before registering for this course. MWF 9 (I, II); MWF 10 (III, IV); MWF 11 (V, VI); MWF 1 (VII, VIII); MWF 2 (IX, X); T Th 9:10-10:25 (XI); T Th 10:35-12 (XII); T Th 2:10 (XIII, XIV). [0]

A3, A4. Reading, Writing, and Speaking of English for Foreign Students. 8 points. MISS METZGER.

To be taken in place of A1-A2 by students not thoroughly accustomed to the use of English. T Th 9:10-10:25 plus two conferences each week. [0]

D1, D2. Speech. No credit. MISS NELBACH.

Individual speech examinations for transfer students who have not had the equivalent of, and who are not enrolled in, *English A1*. Hours to be arranged. [0]

WRITING

General prerequisite, Course A1-A2. *To elect any course in writing, a student must secure the written permission of the instructor in charge, or of the Chairman or the Departmental Representative.*

See also Courses 63 and 64.

1, 2. English Composition. 6 points. PROFESSOR COLIE and MR. ULANOV.

A course designed especially for students who need additional training in composition beyond the first-year level. Emphasis on correct and clear expression, and sound organization of materials. Students may take either semester or both.

Cannot be counted toward a major in English. M W F 9. [0]

3, 4. Exposition: Structure and Style. 6 points. PROFESSORS TILTON and BARACH.

An advanced course in composition including study of exposition, narration, description, and argumentation. Weekly compositions required. Students may take either semester or both. T Th 9:10-10:25. [0]

5, 6. Advanced Composition. 6 points. PROFESSOR KOUWENHOVEN.

The members of the class will keep daily journals and work up the material in finished papers, fiction and non-fiction. Students may take either semester or both. M W F 2. [0]

Note: The following courses are open only to those who have passed at least one semester of 3, 4, 5, or 6 with a grade of B- or better, or who have received written permission from the Chairman or the Departmental Representative.

7, 8. Writing Non-Fiction. 6 points. MR. SMERTENKO.

Gathering material for use in writing history, biography, criticism, and articles. Exercises in writing in these forms with special emphasis on the creative element necessary to readable non-fiction.

Course 7 is prerequisite to Course 8. M W F 11. [0]

11, 12. Story Writing. 6 points. PROFESSOR BARACH.

This is a workshop course, providing continuous experience in planning and writing short fiction. Class discussion and individual editorial conferences with the instructor are aimed at providing an understanding of the central problems of short story writing, and the technical means by which they can be attacked.

Course 11 is prerequisite to *Course 12*. M 3 and W 3-5. [0]

14. Writing for Radio and Television. 2 or 3 points. MR. TEICHMANN.

Preparation of scripts. Writing original shows and adapting other material for broadcasting. M 3-5. [0]

15, 16. Playwriting. 6 points. MR. SWEET.

A workshop course, providing experience in writing plays for the contemporary theater. The class will discuss modern techniques in practical theater, and will study a number of contemporary plays.

Course 15 is prerequisite to *Course 16*. T Th 10:35-11:50. [0]

SPEECH

For courses important to students of speech, other than those listed below, see *Courses 41; 43; 47, 48; *F.A. Acting 105-106*. The college dramatic club, *Wigs and Cues*, and the campus radio station, *WKCR*, offer practical experience.

20. Extemporaneous Speaking. 1 point. MISS NELBACH.

Practice in discussion and speaking to small groups for students who wish help in making themselves understood, and who wish experience in thinking on their feet. ~~Th 1. [0]~~ I - TH 1, II TH 2.

21-22. Voice and Diction. 6 points. MR. NORMAN.

A basic course in the fundamentals of speech and voice production designed to aid each student in acquiring clear speech, a pleasing voice, reasonable self-assurance, and the ability to make herself understood. *Winter Session*: Drills in voice production and English phonetics with phonograph and dictaphone recordings. *Spring Session*: An intensive study of phrasing, intonation, rhythm, and stress. Registration limited to 15 students. Written permission of the instructor required. M W F 11 (I); T Th 2:10-3:25 (II). [0]

R21. Voice and Diction. 3 points. MISS NELBACH.

Same as *Course 21*, but given in Spring Session. T Th 10:35-11:50. [0]

23. Oral Interpretation of Literature. 3 points. MRS. URMY.

The study and presentation of ballads, lyrics, monologues, and essays. M W F 9. [0]

24. Oral Interpretation of Drama. 3 points. MRS. URMY.

Theater, radio, and television techniques.

Prerequisite: *Course 23* or 21-22. M W F 9. [0]

27, 28. Public Speaking. 4 points. DR. MARLATT.

Training in the delivery of prepared and extemporaneous speeches and in leading and participating in panel and round-table discussions. Techniques of argumentation and debate. Analysis of important speeches. Parliamentary procedure. Th 3-5. [0]

The following courses, given at Teachers College, are open to English majors whose special field is Speech. See your major adviser.

Ed. 261 KE. Speech Development and Correction. 2 or 3 points. PROFESSOR ZIMMERMAN.

A study of the speech problems of students on the kindergarten, elementary, secondary, and adult school levels. Demonstrations are given. F 7:30–9:10 p.m.

Ed. 261 KEx–262 KEx. Speech Improvement Laboratory. 2 or 4 points. PROFESSOR ZIMMERMAN.

This course supplements *Ed. 261 KE* with supervised observation and practical experience with children and high school students who have speech problems. F 4–5:15 (children); F 6–7:15 (high school students).

Ed. 261 K. Speech Pathology. 3 points. PROFESSOR ZIMMERMAN and special lecturers.

Consideration of disorders of articulation, phonation, rhythm, and symbolization: classification, methods of diagnosis, and therapy.

Prerequisite: *Ed. 261 KE*. Spring Session: F 7:30–9:10 p.m.

DRAMA

The work of English majors specializing in drama centers upon the study of dramatic literature (see *Courses* 53 through 62), with related work in practical theater. The Minor Latham Drama Workshop offers the following technical courses in which students (including non-majors) may take a maximum of 12 points, paired with an equal number in academic courses. In addition, the department offers the following courses whose work is integrated with that of the Workshop and the special field of drama: 14; 15, 16; 24.

The college dramatic club, *Wigs and Cues*, and the campus radio station, WKCR, offer additional opportunities for practical experience.

29, 30. Play Production. 6 points. MR. SWEET.

Winter Session: Basic principles of acting, directing, and stage managing.
Spring Session: Basic principles of set design, set construction, lighting, make-up, and costuming.

Each student must complete a two-semester project in practical theater in order to receive credit for this course. See MR. SWEET for details. Written permission of the instructor required. T Th 9:10–10:25. [0]

***F.A. Acting 105–106. Theater Reading.** 4 points. MISS KELLER.

Practice in theater reading for the development of vocal power, flexibility, and variety. Individual and group practice in the interpretation of lines and scenes.

Prerequisite: *Course* 23, 24. Admission only on written permission of the instructor. No additional fee for Barnard English majors specializing in drama or speech. F 12:55–2:35 (I); W 4:35–6:15 (II). Brander Matthews Auditorium.

***F.A. Acting R105–R106. Theater Reading.** 4 points. MISS KELLER.

Same as 105–106, starting in Spring Session. M 6:35–8:15. Brander Matthews Auditorium.

***F.A. Play Directing 101. Fundamental Course.** 3 points. PROFESSOR SMITH.

This course deals with the general philosophy of theater practice, the analysis of plays for production, play choice, play casting, and the conduct of rehearsal from the point of view of the director. Each student makes a director's study of some specific play, and is expected to spend some time in observing and participating in the work of the Columbia Theater Associates.

Prerequisite: *Course 29, 30.* Admission only on written permission of the instructor. No additional fee for Barnard English majors specializing in drama. F 6:35–8:15. Additional laboratory hours to be arranged. Brander Matthews Auditorium.

***F.A. Stagecraft 109–110. Stage Design.** 4 points. MR. THOMPSON.

An advanced course in stage design. Limited to fifteen students.

Prerequisite: *Course 29, 30.* W 7–10 p.m.

LANGUAGE AND LITERATURE

Courses marked thus § will count toward the literature part of the humanities requirement.

36. The History of English Literature. 3 points. PROFESSOR ROBERTSON.

Books, authors, and their times. A chronological survey of major and minor writers, set against a background of social, economic, and political history. M W F 2. [5]

§37, §38 (formerly 39, 40). Introduction to English Literature. 6 points. MR. BOVIE.

A general view of the scope and variety of English literature through a study of selected writers and works, from the beginnings to the present. Lectures, readings, discussions. *Winter Session:* Beowulf through Dryden. *Spring Session:* 1700 to the present. M W F 9. [1]

39, 40 (formerly 37, 38). The Tradition of the Humanities (same as Classical Civilization 87, 88). 6 points. MR. BOVIE.

Class discussions based on the reading of significant books in the history of European thought. *Winter Session:* The ancient world, from Homer to Vergil. *Spring Session:* Medieval and modern Europe, from Augustine to the twentieth century.

Written permission of the instructor required. Registration limited to twelve. T Th 9:10–10:25. [6]

41, §42 (also *263, 264). Anglo-Saxon Language and Literature. 6 points. PROFESSOR GREET.

Winter Session: An introduction to the study of Anglo-Saxon. *Spring Session:* The Beowulf.

Course 41 is prerequisite to *Course 42.* *Course 41* cannot be counted toward the literature requirement for the degree. W F 9. [1]

§43, §44. Chaucer and his Contemporaries. 6 points. PROFESSOR GREET.

The language and literature of England in the Middle Ages as a part of our cultural inheritance. *Winter Session:* Chaucer's *Canterbury Tales.* *Spring Session:* *Troilus and Criseyde,* poetry and prose of the fourteenth century, including *Pearl, Gawain and the Green Knight, Piers Plowman,* selections from John Wiclif and others.

English majors should take either *Course 43* or *Course 44.* T Th 10:35–11:50. [8]

47, 48. History of the English Language. 4 points. PROFESSOR GREET.

This course is designed to give the scholarly background that is necessary for studies in English usage, oral and written. After an introduction to the phonetics of English, the class considers the history of words, pronunciation, and structure in the light of literary tradition and linguistic science. T Th 9. [6]

[§53. **Development of English Drama from its Beginnings to 1642.** 3 points. PROFESSOR HOOK.

Not given in 1954-55.]

Miracle plays, moralities, and interludes; Elizabethan, Jacobean, and Caroline drama.

[§54. **English Drama from the Restoration to the End of the Nineteenth Century.** 3 points. PROFESSOR HOOK.

Not given in 1954-55.]

A study of the comedy of manners, heroic tragedy, sentimental comedy and tragedy, ballad opera, bourgeois comedy, romantic tragedy, and melodrama.

55. The Development of the Theater. 3 points, MISS GILDER. A study of changing forms in the theater and in dramatic literature, from ancient Greek times to the modern theater. Papers required. W 3-5. [10]

58. Drama from Ibsen to the Present. 3 points. MISS GILDER.

Reading of English, continental, and American plays, of which the most important will be analyzed in class; playgoing, on and off Broadway. W 3-5. [10]

59, 60. Studies in Contemporary Drama. 6 points. PROFESSOR HOUGHTON.

Eight or ten plays, now in production or recently produced, are considered from many points of view, theatrical and literary. Special lecturers, study of New York productions, laboratory use of the Barnard theater. Recommended for advanced students who are especially interested in the theater and have shown competence in some phase of dramatic work.

Registration is limited. Prerequisite: 6 points in drama and written consent of Mr. Sweet. Lec. W 10-12. Lab. F 10-12. [3]

§61, §62. Shakespeare and the Elizabethan Mind. 6 points. PROFESSOR ROBERTSON and MR. ULANOV.

An introduction to the meaning, scope, and greatness of Shakespeare. The sonnets and all the plays are read in the course of the year, though only the more important are studied in class.

Course 61 is prerequisite to Course 62. M W F 3. [10]

63. Literary Criticism. 3 points. PROFESSOR COLIE.

The chief individual talents and the major traditions in literary criticism, from Plato to the present. Practical experience through frequent short critical papers and one long critical essay. M W F 1. [4]

§64. Development of English Prose. 3 points. PROFESSOR ROSENBERG.

A critical and analytical study of the major prose traditions in English. Frequent short papers and one long essay. M W F 3. [10]

§65. Spenser and Sixteenth Century Poetry. 3 points. PROFESSOR ROSENBERG.

Study of the chief lyrists of the period, their themes, forms, and theories of poetry. M W F 11. [3]

§66. Milton and Seventeenth Century Poetry. 3 points. PROFESSOR COLIE.

The complete poetical works of Milton, with supplementary readings. Some study of Donne and the Metaphysicals. M W F 1. [4]

§67, §68. English Literature of the Eighteenth Century. 6 points. PROFESSOR CLIFFORD and MR. ULANOV.

The principal authors from Dryden to the end of the eighteenth century, studied in relation to the thought of the period. *Winter Session:* Dryden, Swift, and Pope. *Spring Session:* Dr. Johnson and his circle, and the pre-Romantics. T Th 11 and Th 1. On Tuesday and Thursday morning the class will attend the lectures of **English 213, 214*. The Thursday afternoon session will be a discussion group at Barnard. [8]

§69, §70. The English Novel. 6 points. PROFESSOR BARACH.

Pioneers in the development of the English novel from the eighteenth century to the present. *Winter Session:* Such eighteenth-century trail breakers as Defoe, Fielding, and Sterne, contrasted with Joyce, Lawrence, and Woolf. *Spring Session:* Jane Austen to Conrad. T Th 2:10–3:25. [9]

§71. English Literature of the Romantic Period. 3 points. PROFESSOR MCGUIRE.

A study of the poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats in the light of contemporaneous theories of poetry and of present-day criticism. M W F 2. [5]

§74. Victorian Poets. 3 points. PROFESSOR ROBERTSON.

A study of poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne. M W F 1. [4]

§75. The Victorian Age in Literature. 3 points. PROFESSOR ROBERTSON.

Literary expression of tendencies in the thought of the period—social, scientific, religious and artistic. Among the writers considered are Carlyle, Mill, Arnold, Ruskin, and Pater. M W F 1. [4]

§79, §80. American Literature from the Colonial Period to the Present Day. 6 points. PROFESSOR TILTON.

Winter Session: Jonathan Edwards to Walt Whitman. *Spring Session:* Mark Twain to William Faulkner. T Th 2:10–3:25. [9]

§81. Major American Writers. 3 points. PROFESSOR KOUWENHOVEN.

Emerson, Hawthorne, Melville, Whitman, and Mark Twain.

Prerequisite: *Course 79 or 80 or written permission of the instructor.* M W F 9. [1]

§82. American Vernacular Literature and Art. 3 points. PROFESSOR KOUWENHOVEN.

An approach to the study of popular culture in a machine-age democracy. The forms of vernacular literature (including dime novels, folk tales, and comics) and the vernacular tradition in architecture, music, painting, and other arts.

Prerequisite: A college course in American literature, American history, or American art. M W F 9. [1]

§83. Modern Literature and the Allied Arts. 3 points. MR. ULANOV.

The focus and the vocabulary of the modern artist, examined and defined first in terms of literature, and then through a comparison with painting, music, the dance, the theater, and the motion picture. Gallery trips and record-listening are a part of the course.

Written permission of the instructor required. M W F 2. [5]

86. The American Romantics and their European Sources, 1797–1855. 3 points. PROFESSOR TILTON.

The relationships between American and European literature, with special emphasis on American interest in German writers.

Prerequisite: *Course 71* or *79*. Ordinarily given in alternate years with *Course 88*. T Th 9:10–10:25. [6]

[88. American and European Fiction, 1865–1920. 3 points. PROFESSOR TILTON.

Not given in 1954–55.]

Ordinarily given in alternate years with *Course 86*.

SEMINARS FOR MAJORS

91, 92. Special Reading. 6 points. PROFESSORS ROSENBERG, McGUIRE, and COLIE.

The student plans and follows a program of reading which will supplement and coördinate her work in other courses.

Registration is limited. T 3:35–4:50. [0]

93, 94. The English Conference. 2 points. PROFESSOR GREET and members of the department.

The general subject is the practice of literature and drama. Members of the department will be joined by distinguished authors, critics, actors, and directors.

This course is required of all English majors in both junior and senior years. It is not open to other students. Th 3:35–4:25. [0]

95, 96. Senior Thesis. 6 points. PROFESSOR ROBERTSON and members of the department.

The writing of a long essay under the supervision of a member of the department.

Open only to a small group of senior majors on invitation of the department. Hours for consultation to be arranged. [0]

FINE ARTS

MARION LAWRENCE, Ph.D., Professor of Fine Arts,
Executive Officer

JULIUS S. HELD, Ph.D., Professor of Fine Arts

JANE GASTON-MAHLER, Ph.D., Assistant Professor Fine Arts

MARIANNA BYRAM, A.M., Assistant Professor of Fine Arts

¹JOHN H. PLUMMER, Ph.D., Instructor in Fine Arts

JANE H. ROSENTHAL, A.B., Assistant in Fine Arts

PRUDENCE READ, A.M., Studio Assistant in Fine Arts

A major in fine arts. Students majoring in fine arts will be required to take:

Fine Arts 97–98 and other courses in the following fields: ancient, medieval, renaissance, baroque, and modern. They are strongly recommended also to take some work in the oriental field.

¹ Officer of Columbia University giving instruction in Barnard College.

Other fields. A reading knowledge of French, German, or Italian. Students planning to do graduate work must have German and one other modern language. Courses in history, literature, languages, philosophy, or other fields which will vary with the special interest of the student are advisable and should be arranged in consultation with the department.

1-2. Introduction to the Study of Fine Arts. 4, or with laboratory, 6 points. PROFESSOR LAWRENCE.

A general study of esthetic problems as preparation for a more detailed study of the fine arts. This will include a discussion of the major problems of artistic expression and their solution in the fields of architecture, sculpture, and painting, together with a consideration of the art as characteristic of certain great periods of European culture. Short papers will be assigned on buildings, sculpture, and paintings in New York City.

Laboratory work: drawing, sketching from the living model, water color, tempera, clay modelling, and carving. Two hours of class instruction and one of studio practice, counting one point a term.

Intended primarily for freshmen and sophomores but open to juniors and seniors on written permission of the department. T Th 10 and, for 6 points, Th 1-3 (I); 3-5 (II). [7]

***43 (formerly 41). Introduction to Ancient Art.** 3 points. DR. PLUMMER.

After a brief discussion of the stone ages, the architecture, sculpture, and painting of the preclassical civilizations of the eastern Mediterranean—Egypt, Mesopotamia, and the Aegean—and of the classical styles of Greece and of Rome are analyzed in detail, with some reference to their Persian and Etruscan offshoots.

Open to all except freshmen. *History* 5, 6 is recommended as a parallel course. M W 11-12:15. Visits to the Metropolitan Museum of Art, F 1, or at hours to be announced.

51, 52. Medieval Art. 6 points. PROFESSOR LAWRENCE.

An introductory study of the origin and development of Christian art in Europe through the early Christian, Byzantine, Carolingian, Romanesque, and Gothic periods. In the first semester the emphasis is on the development of style and iconography, especially as illustrated by mosaics and illuminated manuscripts. In the second semester special attention will be given to the Romanesque and Gothic architecture and sculpture of France.

Open to juniors and seniors. *History* 7, 8 is recommended as a parallel course.

Course 51 is prerequisite to *Course* 52. M W 2. Third hour and visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters, F 2, or at hours to be arranged. [5]

61. European Architecture from the Renaissance through the Rococo Style. 3 points. PROFESSOR BYRAM.

Starting with the Italian Renaissance the course will cover the major developments in European architecture from the fifteenth century through the Rococo style of the eighteenth century.

Open to all except freshmen. M W F 10. [2]

63. European Sculpture, Renaissance and Modern. 3 points. PROFESSOR BYRAM.

Starting with the Italian Renaissance the course will cover the important developments in European sculpture from the Pisani into the twentieth century.

Open to all except freshmen. M W F 1. [4]

R65. Italian Renaissance Painting. 3 points. PROFESSOR HELD.

The stylistic and iconographic development of Italian painting from the thirteenth to the middle of the sixteenth century with detailed study of Giotto, Masaccio, Leonardo, Raphael, Michelangelo, and Titian.

Open to all except freshmen. T Th 2 and a third hour to be arranged. Visits to the Metropolitan Museum of Art. [9]

R66. Renaissance Painting in Northern Europe. 3 points. PROFESSOR HELD.

The history and development of painting in the Flemish, Dutch, French, and German schools from the end of the Gothic period through the sixteenth century. Emphasis will be put on Van Eyck, Van der Weyden, Bosch, Bruegel, Duerer, and Gruenewald.

Open to all except freshmen. T Th 2 and a third hour to be arranged. Visits to the Metropolitan Museum of Art. [9]

68. Prints and Drawings. 3 points. PROFESSOR BYRAM.

The history and technique of the graphic arts as illustrated in the work of the principal artists from the beginning of the fifteenth century to modern times.

Prerequisite: *Course 65 or 66 or 75, 76.* M W F 1. [4]

70. European and American Architecture from the Eighteenth Century into the Twentieth Century. 3 points. PROFESSOR BYRAM.

Starting with the classic Revival of the eighteenth century the first two-thirds of the course will be devoted mainly to France, Germany, and England. The last third of the course will deal with American architecture from the eighteenth century to the present. Open to all except freshmen. M W F 10. [2]

[71. Architecture and Sculpture since the Renaissance. 3 points. PROFESSOR BYRAM.

Not given in 1954-55.]

The first part of the course will be devoted to the main architectural developments from the Italian Renaissance to the present day. The last part will be a study of the significant achievements in the field of sculpture from the sixteenth century to modern-times.

Open to all except freshmen.

75, 76. European Painting since the Renaissance. 6 points. PROFESSOR HELD.

The development of painting in Europe from the sixteenth century to the present. During the first term the painters of the Mannerist and Baroque periods will be studied, among them Michelangelo, Tintoretto, El Greco, Caravaggio, Poussin, Velazquez, Rubens, Rembrandt, Watteau. In the second term the growth of modern art will be traced, beginning with the artists of the French Revolution. The discussion will center on David, Goya, Delacroix, Courbet, Daumier, The Impressionists, Cézanne, Van Gogh, and the various trends of the twentieth century.

Open to all except freshmen. For *Course 76* without *Course 75*, written permission of the instructor is required. T Th 10:35-11:50. Visits to the Metropolitan Museum of Art. [3]

78. Modern European and American Painting. 3 points. DR. PLUMMER..

A history of the movements in the painting of the twentieth century from their origins and Post-Impressionism and other painting at the end of the nineteenth century. Special attention will be given to the development of American painting

and the impact of these European movements during and after the Armory Show. This course will supplement and complete the necessarily brief treatment in *Course 76*.

Open to all except freshmen. M W F 1. [4]

91, 92. Oriental Art. 6 points. PROFESSOR GASTON-MAHLER.

The first semester will deal with the arts of Persia, India, and Indonesia; temples, palaces, sculpture, miniature painting and frescoes, and minor arts. The second semester will be concerned primarily with the arts of China and Japan, with attention given to central Asiatic art as it affects these countries. Chinese bronzes. Buddhist art, and the great painting and porcelain of the Sung period will be stressed, while in Japan, Buddhist architecture and sculpture, and the later scrolls, screens, and prints will be studied.

Open to all except freshmen. M W F 11. Conferences and visits to the Metropolitan Museum of Art, F 11 or at hours to be arranged. [3]

97-98. Seminar for Majors. 6 points. PROFESSOR LAWRENCE.

Special work planned in each case to supplement and coördinate the student's other courses in fine arts and to provide an opportunity for the study of basic principles as well as specific problems in a chosen field.

Required of all majors in their senior year. T 3-5. [13]

TECHNICAL COURSES

Studio courses can count toward the degree only if taken parallel to a theoretical or historical course in fine arts. Fine Arts majors may credit a maximum of 12 points of studio work. Junior and senior majors are exempt from special fees.

***G.S. Drawing 1-2. The Grammar of Art.** 4 points. PROFESSOR MANGRAVITE assisted by MR. DORSAY.

Drawing and painting. Orientation of the student to art as a language. This foundation course is planned to develop an understanding and appreciation of the principles of creative design as applied to the visual arts. Through personal supervision, the student is guided in the practice of drawing and painting.

Course 1 is prerequisite to *Course 2*, except on written permission of the instructor. Special fee, \$50 each session and model fee, \$5 each session. M Th 1-3 (I); 3-5 (II); T F 9-10:50 (III). East Hall.

***G.S. Drawing 3-4. The Grammar of Art (continued): Drawing and Painting.** 4 points. PROFESSOR MANGRAVITE assisted by MR. DORSAY and MR. WYATT.

A continuation of *Course 1-2*. The elementary principles of three-dimensional drawing and painting are practiced from organic forms and from the human figure. Their proportion, action, character and design are stressed, and the synthesis of drawing and painting emphasized.

Prerequisite: *Course 1-2*, or equivalent experience. Special fee, \$50 each session and model fee, \$5 each session. M Th 10-12 (I); T Th 3-5 (II). East Hall.

Other studio courses given at Columbia University may be taken by written permission of the department upon payment to Barnard of additional fees. These courses are described in the Announcement of the School of General Studies under *Painting and Sculpture*.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs

and Standing of Barnard College. A description of these courses will be found in the Announcement of the Faculty of Philosophy. The following are specifically recommended as suitable for Barnard seniors:

- *118. **Spanish and Latin American Art.** 3 points. PROFESSOR COLLINS.
- *121. **Primitive Art and Its Contribution to Modern Art.** 3 points. PROFESSOR WINGERT.
- *B146. **Roman Art.** 3 points. PROFESSOR SWIFT.
- *B156. **Romanesque Painting.** 3 points. PROFESSOR SCHAPIRO.
- *161. **Architecture of the Renaissance.** 3 points. PROFESSOR SWIFT.
- *163. **Florentine Painting of the early Renaissance.** 3 points. ———.
- *R171. **Art of the Baroque Period.** 3 points. PROFESSOR HELD.
- *172. **Modern Architecture.** 3 points. PROFESSOR SWIFT.
- *R176. **Modern Painting since 1900.** 3 points. PROFESSOR SCHAPIRO.
- *191. **The Art of the Near and Middle East.** 3 points. PROFESSOR GASTON-MAHLER.
- *192. **The Art of the Far East.** 3 points. PROFESSOR GASTON-MAHLER.

FRENCH

LEROY BREUNIG, Ph.D., Associate Professor of French
Executive Officer

ANDRÉ MESNARD, A.M., Associate Professor of French

¹ISABELLE DE WYZEWA, Ph.D., Assistant Professor of French

HELEN PHELPS BAILEY, Ph.D., Assistant Professor of French

HELEN M. CARLSON, A.M., Associate in French

¹TATIANA GREENE, A.M., Instructor in French

LINETTE W. BRUGMANS, A.M., Instructor in French

ALBA-MARIE FAZIA, Ph.D., Instructor in French

ANTOINETTE NOEL HOFFHERR, A.M., Lecturer in French

RENÉE J. KOHN, Agrégée de l'Université, Lecturer in French

GEORGES AUCLAIR, Lic.-ès-L., Visiting Lecturer in French

²JEANNE VARNEY PLEASANTS, D. d'Univ., Associate Professor of French

A major in French. Students majoring in French will be required to take:

French 7–8 and three additional literature courses; an advanced composition course (13, 14); and an advanced oral course (17, 18 or 41–42). Only two courses in the intermediate group may be counted in the major. The introductory language courses, 1–2; 3, 4; R4, cannot so count.

Other fields. Courses in history, fine arts, or other fields which vary with the interest of the student should be elected after consultation with the department.

¹ Absent on leave, 1954-55.

² Officer of Columbia University giving instruction in Barnard College.

LANGUAGE COURSES

1-2. Introductory Full-Year Course. 8 points. PROFESSOR MESNARD and MRS. BRUGMANS.

Grammar, reading, composition. M T W Th F 9 (I); M T W Th F 11 (II). [14]

3, 4. Intermediate Course. 6 points. Miss FAZIA and MRS. HOFFHERR.

Review of grammar and syntax. Translation, reading, oral practice, free composition.

Prerequisite: *Course 1-2* or two years of high school French. M W F 1 (I); 2 (II); M W F 3 (III). [14]

R4. Intermediate Course. Part II. 3 points. MRS. KOHN.

The equivalent of *Course 4* but given in the winter session.

Prerequisite: *Course 3* or three years of high school French. M W F 10. [14]

5x, 6x. Practical Course in Sight Reading and Prepared Translation. 6 points. MISS CARLSON and MISS FAZIA.

Texts chosen to develop ease and accuracy in handling a variety of styles and subjects: historical, philosophical, artistic, scientific, as well as literary prose. Especially intended for students wishing to prepare for the foreign language test in French and majors in other subjects who need to understand and translate French texts for reference purposes.

Prerequisite: *Course 3, 4* or three years of high school French. M W F 9 (I); 10 (II); T Th 10:35-11:50 (III). [14]

5, 6. Discussion and Composition Based on Readings in Modern French Literature, with Occasional Practice in Translation. 6 points. MRS. BRUGMANS and MR. AUCLAIR.

A study based on prose and poetry of the nineteenth and twentieth centuries. Discussion in French of texts read. Free composition and grammar review. Practice in both intensive and extensive reading.

Prerequisite: *Course 3, 4* or three years of high school French. M W F 9 (I); M W F 11 (II); T Th 10:35-11:50 (III). [14]

R5. Conversation and Composition Based on Readings in French Literature, with Occasional Practice in Translation. 3 points. MRS. KOHN.

The equivalent of *Course 5* but given in the spring session.

Prerequisite: *Course 4* or R4. M W F 10. [2]

11, 12 (formerly 9, 10). Review of Grammar and Composition.¹ 4 or 6 points. PROFESSOR MESNARD.

Intended primarily for those taking literature courses who desire a review of grammar and syntax. There will be translation from English into French and weekly compositions.

Open to students of all classes on written permission of the instructor. Limited to 10 students. T Th 9. [6]

13, 14. Advanced Translation and Composition.¹ 4 points. MRS. KOHN.

Translation from French into English and from English into French. Composition, preparation of critical essays and articles on a variety of subjects assigned.

Open only on written permission of the instructor. M W 1. [4]

¹ Conducted entirely in French.

15-16 (formerly 19, 20). Oral French, Intermediate Full-Year Course.¹ 4 points. MRS. BRUGMANS.

Pronunciation, recitation, conversation based on selected readings.

Prerequisite: *Course 5* or the equivalent and the written permission of the department. Limited to 12 students. T Th 11, and a conference period to be arranged. [8]

17, 18 (formerly 11, 12). French Phonetics.¹ 6 points. PROFESSOR PLEASANTS.

Study of spoken French: conversational and literary; aural-oral practice supplemented by analysis of the structure (content and form) of selected passages from French literature.

Open to students on written permission of the instructor. Limited to 20 students. M W F 9. [1]

[41-42. Oral French, Advanced Full-Year Course.¹ MRS. KOHN.

Not given in 1954-55.]

Discussion based on contemporary French readings, reports on assigned subjects, practice in the recitation of lyric prose and poetry.

Prerequisite: *Course 15-16* or the equivalent and the written permission of the instructor. Limited to 10 students.

LITERATURE COURSES

Students are reminded that the ability to use French both in speaking and in writing is a general requirement for all literature courses.

Students who have not taken Course 7, 8 or the equivalent must receive written permission from the instructor in order to take the more advanced literature courses beginning with 21, 22.

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken, and a grade of C- or higher is obtained.

§7, §8. Masterpieces of Literature from the Middle Ages to the Twentieth Century. PROFESSOR BAILEY, MISS CARLSON, MRS. HOFFHERR and MRS. KOHN.

Lectures in French on the history of French literature, analysis of texts, recitations, discussions. The students write essays and reports on outside reading.

Prerequisite: a grade of at least B in *Course 4* and the written permission of the department or a high rating in three years of high school French.

8 points: This course is required of students majoring in French and may be counted toward the major.

6 points: Modified requirements in reading and composition. Students who may subsequently wish to count the 6 points toward a French major may do so by additional work equivalent to 2 points. M W 9, Th 2 (I); M W 10, Th 2 (II); M W 11, Th 2 (III); M W 1, Th 2 (IV). [14]

§9, §10. Introduction to French Civilization. 4 or 6 points. PROFESSOR MERNARD.

The social, artistic, literary and scientific activities of the French people in the formation of their national life.

Prerequisite: a grade of at least B in *Course 4* and the written permission of the department or a high rating in three years of high school French. T Th 10. [7]

¹ Conducted entirely in French.

§21, §22 (formerly 31, 32). French Literature in the Middle Ages and the Renaissance. 6 points. MRS. KOHN.

Study of selected works of literature with reference to the history and art of the respective periods. M W F 2. [5]

§23-§24 (formerly 21-22). French Literature in the Seventeenth Century. 6 or 8 points. PROFESSOR BREUNIG.

Detailed study of selected masterpieces of the classical writers. The nature of French classicism. M W F 10. [2]

§25, §26 (formerly 35, 36). French Literature in the Eighteenth Century. 6 points. MR. AUCLAIR.

The chief essayists, novelists, and dramatists of the period in their most significant works and letters. M W F 11 [3]

§27, §28 (formerly 23, 24). French Literature in the Nineteenth Century. 6 or 8 points. PROFESSOR BAILEY.

Representative works of the principal authors and literary movements from early Romanticism through Symbolism. M W F 1. [4]

§29. French Literature in the Twentieth Century. 2 or 3 points. MR. AUCLAIR.

The major novelists and essayists of the last fifty years. T Th 9. [6]

[§31, §32 (formerly 25, 26). History of the French Novel. 6 points. PROFESSOR DE WYZEWA.

Not given in 1954-55.]

A study of the development of French culture, thought, ideals, and literary technique as reflected in the most representative novels of each period, from the Middle Ages to the present.

§33, §34 (formerly 27, 28). History of French Drama. 4 or 6 points. PROFESSOR BREUNIG.

General survey of the development of the French drama from its origins to the present time; representative plays from each period. T Th 10. [7]

37-38 (formerly 39-40). Special Reading Seminar. 4 or 6 points. PROFESSOR BAILEY.

Intended primarily for French majors. Students will be given a program of supervised reading which will help them to coördinate their work in other French courses. [0]

39-40. Senior Thesis. 6 points. PROFESSOR BREUNIG and members of the department.

Research into a precise topic of French literature and the preparation of a long essay.

Open only on invitation to seniors with honor grades. The essay satisfies in part the major examination requirement. Hours for consultation to be arranged. [0]

§126. Contemporary French Poetry. 3 points. PROFESSOR BREUNIG.

French poetry from Symbolism to the present with analyses of significant poems since 1885. T Th 9. [6]

GEOLOGY AND GEOGRAPHY

HENRY S. SHARP, Ph.D., Professor of Geology
Executive Officer

FLORRIE HOLZWASSER, Ph.D., Associate Professor of Geology

LEONARD ZOBLE, Ph.D., Assistant Professor of Geography

WILLIAM F. GOODWIN, JR., A.M., Instructor in Geography

JANE LANCASTER, A.M., Assistant in Geology

A major in geology. Students majoring in geology are required to take *Geology 1, 2, A11, 15, 19, and 30*, or their equivalent. The remaining points for the major may be selected from the offerings of this department and the Columbia Department of Geology; up to 6 points in a non-geologic science may be counted toward the major. In any case, majors planning to do graduate work in geology are expected to take courses in related fields of science; the science programs of other majors are adjusted to the interest and purpose of the student. All majors in geology are urged to take well-balanced programs in the humanities and social sciences, and by their senior year to take a field course, such as **Geology s179, Geology of the Rocky Mountains*, offered in Wyoming each summer by Columbia University.

A major in geography. Students majoring in geography will ordinarily present *Geography 1-2* or *Geology 1, 2* or *1a, 2a* as their basic course. Other required courses counting toward the major are *Geography 10, 12*; two terms of work from among *Geography 3, 5, 15, 16*; and *Geology 28E or W*. The remaining courses for the major will depend in part upon the interests of the student and are to be selected in consultation with the major adviser. Majors should ordinarily satisfy the contemporary civilization requirement by *Economics 1-2* or *Sociology 1-2*, and select their elective and required courses to correlate with their geographic interests so far as possible.

Natural Resources. A joint major in Natural Resources is offered by the Departments of Botany and Geology-Geography. See Interdepartmental Majors, page 74.

GEOGRAPHY

[1-2. **Physical and Economic Geography.** 6 points. PROFESSOR HOLZWASSER.
Not given in 1954-55.]

Study of maps and map projections; consideration of man's geographic background—weather, climate, oceans, and landforms; his adaptation to this background and his utilization of natural resources.

Intended to be of use to students of history, economics, sociology, and to others wishing to gain some knowledge of environment as a guide to better understanding in their own major field.

This course fulfills the contemporary society requirement.

3. The Geography of South America. 3 points. PROFESSOR HOLZWASSER.

A study of the position, climate, relief, and natural resources of the continent and its constituent countries. This course should be of value to students interested in South America. M W F 10. [2]

5. The Physical and Economic Structure of Europe. 3 points. MR. GOODWIN.

A study of the position, climate, relief, and natural resources of Europe and the economic development of its constituent countries. This course should prove of value to students of European history and government or those otherwise interested in the continent.

Given in alternate years. M W F 11. [3]

[7. Principles of Political Geography. 3 points. MR. GOODWIN.*Not given in 1954-55.]*

A study of the basic principles of political geography; readings and discussion of the standard works in the field. Applications of the principles by examination of critical areas of the world.

Given in alternate years.

10. Weather and Climate. 3 points. PROFESSOR HOLZWASSER.

The fundamentals of modern meteorology; the atmosphere, its composition, height, and properties; temperature, pressure, humidity, and related weather elements; atmospheric circulation; climates of the earth. Brief reference to problems of water supply, floods, and soil erosion. M W F 10. [2]

12. Natural Resources: Their Use and Misuse. 3 points. MR. GOODWIN.

A systematic investigation into the availability, use and misuse of resources, the rôle of economics and politics in determining their utilization, and the social implications of our resource policy. Several voluntary field trips. M W F 11. [3]

15, 16. Regional Economic Geography of North America. 6 points. MR. GOODWIN.

A study of the areal distribution of population and industry in North America. The trends in the changing pattern of economic activity, and an analysis of the forces stimulating them are stressed. Several voluntary field trips. *Winter Session:* Eastern North America. *Spring Session:* Western North America.

This course fulfills the contemporary society requirement. M W F 1. [4]

17. Cartography. 3 points. MR. GOODWIN.

Principles governing choice of projections, scale, and grid in map making; methods of depicting relief; use of aerial photographs; evaluation of source material.

Prerequisite: One year of geology or geography. T 2 and Th 2-4. [9]

GEOLOGY**1. Physical Geology. 4 points. PROFESSOR SHARP and MISS SAWYER.**

Courses 1 and 2 are planned to give students knowledge of the earth as the most important physical factor in their background. *Course 1* covers the composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. The laboratory includes study of common rocks and minerals, and intensive study of contour maps as means of depicting topography. *Course 1* makes a good unit for students taking other sciences and wishing to gain some knowledge of the content of geology. Those wishing to become familiar with topographic maps are also advised to elect this course.

With *Course 2* it satisfies the laboratory science requirement. Lec. T Th 11 and Th 1. Lab. (2 hours) T 9-11; T 2-4; W 3-5; Th 2-4. [8]

2. Historical Geology. 4 points. PROFESSOR SHARP and MISS SAWYER.

Important steps in the history of the earth and of the life upon it from the beginning to modern times are emphasized. The laboratory and assigned work include a visit to the Planetarium, study of invertebrate fossils and of geologic maps and structures, museum trips for the study of vertebrate fossils, short field trips, and, if conditions permit, a required Saturday field trip.

Prerequisite: *Course 1*. Lec. T Th 11 and Th 1. Lab. (2 hours) T 9-11; T 2-4; W 3-5; Th 2-4. [8]

1a. Physical Geology and Man. 3 points. PROFESSOR HOLZWASSER.

Lectures and demonstrations upon the composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. For students wishing a broad knowledge of the earth as the most important factor in their background; the constant influence of geologic factors upon man's varied activities will be emphasized. Students will become acquainted with the most common rocks and minerals and will learn to use contour maps.

To follow or parallel a laboratory science; with *Course 2a* it satisfies the non-laboratory science requirement. M W F 9. [1]

2a. Historical Geology and Man. 3 points. PROFESSOR HOLZWASSER.

Important steps in the history of the earth and of the life upon it culminating in the appearance of man; discussion of some great problems of geology and their impact upon man's thought; the occurrence and origin of petroleum and coal as an economic aspect of geology; the influence of geologic factors upon man is emphasized. Some outdoor classes for discussion of geologic features on the campus or in adjacent parks, and assignments of independent work at the American Museum of Natural History.

Prerequisite: *Course 1* or *1a*. With *Course 1a* it satisfies the non-laboratory science requirement. M W F 9. [1]

***A11-A12. Elements of Mineralogy and Lithology. 6 points. PROFESSOR HOLMES.**

The sight recognition and uses of the common minerals and rocks and an introduction to the microscopic identification of minerals. Emphasis on minerals of economic importance and of widespread occurrence. T Th 11 and T or W 2-4.

15. Paleontology. 3 points. PROFESSOR HOLZWASSER.

The study of selected fossil specimens from all major geologic epochs and from most divisions of the plant and animal kingdoms. The principles of evolution and scientific nomenclature and the development of man's knowledge of plants and animals of the past. Lec. T Th 10. Lab. Th 2-4. [7]

[16. Advanced Historical Geology. 3 points. PROFESSOR HOLZWASSER.

Not given in 1954-55.]

A study of the Paleozoic and/or later geologic history of selected regions.

Prerequisite: *Courses 1* and *2*.

19. Structural Geology. 3 points. PROFESSOR SHARP.

Lectures, readings, and problems on folds, faults, and other geologic structures, and on geologic maps and sections. One or more voluntary field trips.

Prerequisite: *Courses 1* and *2* or the equivalent. *Courses 19* and *27* are ordinarily given in alternate years. Lec. T Th 9. Lab. W 2-4. [6]

[26. Topographic Divisions of Europe. 4 points. PROFESSOR SHARP.

Not given in 1954-55.]

Lectures, map study, and readings on the topographic regions of Europe. This course is intended for students interested in the regional aspects of geology and geography and should also be of value to students interested in any aspect of European civilization or travel.

Prerequisite: *Courses 1* and *2*; may be taken concurrently with *2*. Not open to freshmen. With the instructor's permission juniors and seniors may take *Course 26* without *Course 2*. Alternates with a similar course on the United States.

[27. The Origin of Landforms. 3 points. PROFESSOR SHARP.

Not given in 1954-55.]

Lectures, map study, and readings on the principles of geomorphology. The origin and evolution of surface features of the earth as controlled by the interaction between geologic structures and erosional processes. One or more voluntary field trips.

Prerequisite: *Courses 1 and 2* or the equivalent. *Courses 19 and 27* are ordinarily given in alternate years.

28W. (also *Geology 130.) Geomorphology of the Western United States. 3 points. PROFESSOR SHARP.

Lectures, map study, and readings on the geomorphic divisions of the western United States. This course should be of value to students majoring in economics, government, history, the natural sciences, and to others wishing to understand the regional aspects of the United States, or expecting to travel within its boundaries.

Prerequisite: *Courses 1 and 2*; may be taken concurrently with 2. With the instructor's permission juniors and seniors may take *Course 28W* without *Course 2*. Alternates with a similar course on the eastern United States, (28E). T Th 9. [6]

30. Seminar in Geology or Geography. 3 points. PROFESSORS SHARP and HOLZWASSER and MR. GOODWIN.

A seminar course with discussions, problems, and readings on various topics in geology or geography.

Prerequisite: A year of geology or geography. Open to juniors and seniors. Geography, M 2-4; Geology, W 2-4.

GERMAN

LOUISE G. STABENAU, A.M., Assistant Professor of German
Acting Executive Officer

GERTRUD SAKRAWA, Ph.D., Instructor in German

MARGA SCHUHMANN EDWARDS, A.M., Lecturer in German

ALEXANDER GODE, Ph.D., Lecturer in German

A major in German. Students majoring in German will be required to take:

German. Courses 9, 10; 36; 45, 46; 52, and other courses to be arranged in consultation with the department. Courses 1-2 and 01-02 do not count toward the major requirement.

Other fields. Courses which will vary with the special interest of the student and must be arranged in consultation with the department.

LANGUAGE COURSES

1-2. Beginners' Full-Year Course. 6 points. PROFESSOR STABENAU, MISS SAKRAWA, and MRS. EDWARDS.

Elements of grammar, easy reading, written and oral practice. *Course 01-02* is strongly recommended as a parallel course. M W F 9 (I); 11 (II); T Th 2:10-3:25 (III). [15]

01-02. Practice. 2 points. PROFESSOR ————— and MISS SAKRAWA.

Conversation as extension of the work in *Course 1-2*.

Open also to students in *Course 3, 4* and, by special permission, to students in other German courses. T Th 9 (I); 11 (II). [0]

3, 4. Intermediate Course. 6 points. MISS SAKRAWA and MRS. EDWARDS.

Rapid reading of texts, with practice in writing and speaking German.

Prerequisite to *Course 3*, *Course 1–2* or two years of high school German.

Prerequisite to *Course 4*, *Course 3* or three years of high school German. M W F 1 (I); T Th 2:10–3:25 (II). [15]

7, 8. Advanced Translation. 6 points. PROFESSOR ———.

Reading and analysis of expository prose in the fields of science, history, literary criticism, and the like.

Prerequisite to *Course 7*, *Course 4* or the written permission of the instructor.

Prerequisite to *Course 8*, *Course 7* or the written permission of the instructor. M W F 11. [3]

9, 10. Practice Course. 4, or on written permission of the instructor, 6 points. MISS SAKRAWA.

Conversation and composition and, for the third point, outside reading.

Prerequisite: *Course 3* or a high rating in three years of high school German. T Th 10, and, for the third point, Th 1. [0]

LITERATURE COURSES

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken, and a grade of C– or higher is obtained.

5, 6. Lessing, Goethe, and Schiller. 6 points. PROFESSOR STABENAU.

Although the course emphasizes literary appreciation rather than practice in the language, considerable opportunity is offered in the discussions for such practice.

Prerequisite for *Course 5*, *Course 4* or a high grade in three years of high school German. Prerequisite for *Course 6*, *Course 5* or the written permission of the instructor. *Course 5, 6* is recommended as preparation for more advanced courses in German literature. M W F 10. [2]

[§25, §26. **The Drama of the Nineteenth Century.** 4 or 6 points. PROFESSOR STABENAU.

Not given in 1954–55.

Prerequisite: *Course 5, 6* or *7, 8* or the equivalent.

§27. **Prose Fiction of the Nineteenth Century.** 2 or 3 points. MISS SAKRAWA.

Prerequisite: *Course 5, 6* or *7, 8* or the written permission of the instructor. T Th 9. [6]

§28. **The Literature of the Twentieth Century.** 2 or 3 points. PROFESSOR ———.

12.45.5 for 3 pts. 1-2 for 2 pts
Prerequisite: *Course 5, 6* or *7, 8* or the written permission of the instructor. T Th 9. [6]

[§29. **German Romanticism.** 2 or 3 points. PROFESSOR ———.

Not given in 1954–55.

Prerequisite: *Course 5, 6* or *7, 8* or the written permission of the instructor.

§35. **Goethe's *Faust*.** 2 or 3 points. DR. GODE.

Prerequisite: *Course 5, 6* or *7, 8* or the written permission of the instructor. W F 9. [1]

[§45, §46. **History of German Literature from the Earliest Times to the Nineteenth Century.** 6 points. PROFESSOR ———.

Not given in 1954–55.]

Prerequisite: *Course 5, 6 or 7, 8 or the equivalent.*

[52. **German Life and Institutions.** 2 points. Miss SAKRAWA.

Not given in 1954–55.]

GOVERNMENT

PHOEBE MORRISON, J.S.D., Associate Professor of Government
Executive Officer

THOMAS PRESTON PEARDON, Ph.D., Professor of Government

JOHN B. STEWART, Ph.D., Assistant Professor of Government

¹RUTH A. ROOSA, A.M., Lecturer in Russian Studies

JOSEPH A. HEARST, A.M., Lecturer in Government

A major in government. Students majoring in government should take *Courses 3, 4 and 5, 6 and, if possible, at least one other fundamental course such as those offered in international relations (11, 12), constitutional law (25, 26) and political theory (31, 32).* They should then select more specialized courses in accordance with their fields of interest and in conference with their adviser.

Because of the close relationship between the subject matter of history and that of government students majoring in government may, with the written permission of the adviser, offer as part of the required 28 points, 6 points in history. When such courses are counted toward the major in government, they may not also be counted toward the satisfaction of the requirement in other social sciences described below.

Students majoring in government must acquire a reading knowledge of some foreign language.

Other social sciences. In view of the essential unity of the social sciences, every student majoring in government is required to take courses amounting to 12 points distributed between two of the following departments as selected in conference with the adviser: anthropology, economics, geography, history, philosophy, psychology, religion, sociology.

See also *Other Interdepartmental Offerings*, page 74.

See also *International Relations*, page 74.

FUNDAMENTAL COURSES

3, 4. An Introduction to Comparative Government. 6 points. PROFESSORS PEARDON and STEWART.

A survey of contemporary political systems, especially those of England, France, the U.S.S.R., Italy, and Germany.

Open to all except freshmen. M W F 11 (I) [3] PROFESSOR PEARDON;
T Th 10:35–11:50 (II) [8] PROFESSOR STEWART.

5, 6. An Introduction to American Government. 6 points. PROFESSOR MORRISON.

A survey of contemporary American government and public problems, including the fundamental doctrines of the American constitution, the party system,

¹ Absent on leave, Winter Session.

the organization and work of legislative bodies, the leadership of the executive and the process of administration, the judicial system, problems of state and local government; the functions and services of government, including control over foreign relations, banking and commerce; governmental regulation and protection of business and labor, and the promotion of public welfare.

Open to all except freshmen. M W F 9 [1]

11, 12. International Relations. 6 points. MR. HEARST.

An analysis of the setting and basic factors of contemporary world politics and a study of proposals for reconstructing a stable international order.

Open to all except freshmen. M W F 10. [2]

25, 26. The Constitution of the United States. 6 points. PROFESSOR MORRISON.

A study of basic issues in American government as developed through materials on constitutional interpretation, especially decisions of the Supreme Court; the rôle of the judiciary; powers of the President and of Congress in peace and war; federalism; civil liberties. The course is designed for students of American government rather than for the pre-law candidate.

Prerequisite: *Course 5, 6 or History 9-10 or the equivalent.* T Th 9:10-10:25. [6]

31, 32. The History of Political Thought. 6 points. PROFESSOR STEWART.

Major political writings from ancient to modern times are studied and political doctrine such as democracy, liberalism, socialism, fascism, and communism are examined. Emphasis is placed on a comparison of basic ideas and on the relationships between theories and contemporary historical circumstances.

Prerequisite: *Course 3, 4 or History 1-2.* T Th 2:10-3:25. [9]

SPECIALIZED COURSES

[R15. The U.S.S.R. in World Affairs. 3 points. MRS. ROOSA.

Not given in 1954-55.]

A study of Soviet foreign policy as it has developed since 1917; diplomacy and Communist internationalism during the first two decades of Soviet rule; World War II and its aftermath; current trends.

Prerequisite: *Government 3, 4 or History 1-2.*

[R16. The Soviet Union. 3 points. MRS. ROOSA.

Not given in 1954-55.]

An analysis of the political theory and institutions of the U.S.S.R.: the Soviet State and its revolutionary origins; the Communist Party, governmental agencies, and the "mass organizations"; the place of the individual in Soviet society; internationalism and "Soviet patriotism"; developments since World War II.

Prerequisite: *Government 3, 4 or History 1-2.*

18. The United States in Contemporary World Politics. 3 points. MR. HEARST.

A topical survey of some of the more important policy decisions in American foreign policy since World War II. Discussion will pivot around such problems as the writing of the peace treaties, the evolution of the United Nations, the movement toward European integration, the problem of foreign aid, the creation of regional defense systems, etc.

Open to juniors and seniors. M W F 1. [4]

21. American Political Parties and Practice. 3 points. MR. HEARST.

A study of the dynamics of American political life with special attention to the factors entering into the formation of public opinion, the rôle of pressure groups, and the operations of the party system. First-hand observation and study of the actual management of political campaigns and of the operation of legislative bodies and civic organizations.

Prerequisite: *Course 5, 6.* M W F 1. [4]

45, 46. Special Reading. 2 or 4 points. Members of the department.

Study of selected problems in politics and government.

This course may be taken only on written permission. M 3 or W 2 or Th 3. [0]

COURSES FOR SENIOR MAJORS

The following courses are intended primarily for senior majors in government, but may be taken by properly qualified senior majors in related fields who receive written permission from the Department of Government.

61, 62. Seminar in Comparative Government and International Relations. 6 points. MR. HEARST.

Readings, discussion, and the preparation of papers on significant issues and trends in contemporary politics.

Open to senior majors in government and history.

W 4-6. [0]

63, 64. Seminar in American Government. 6 points. PROFESSOR MORRISON.

Research and written reports dealing with diverse aspects of American government. W 4-6. [0]

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. Ordinarily a minimum of 12 points of government at Barnard in addition to a major interest in the social sciences is required as a prerequisite. A description of the graduate courses will be found in the Announcement of the Faculty of Political Science.

GREEK AND LATIN

JOHN DAY, Ph.D., Associate Professor of Greek and Latin,
Executive Officer

¹JOHN F. C. RICHARDS, Ph.D., Assistant Professor of Greek and Latin

HELEN NORTH, Ph.D., Visiting Associate Professor of Greek and Latin

¹COLEMAN H. BENEDICT, Ph.D., Assistant Professor of Greek and Latin

¹HERBERT W. BENARIO, Ph.D., Instructor in Greek and Latin

VERONICA TILLYARD, A.B., Lecturer in Greek and Latin

In coöperation with the Department of Greek and Latin in Columbia University, certain courses (*Greek 19-20, 29-30; Latin 19-20, 29-30*) are offered in combination with Columbia courses by Columbia instructors; another course (*Latin 22*) is offered at Barnard College by a Columbia instructor.

¹ Officer of Columbia University giving instruction in Barnard College.

A major in Greek, or in Latin, or in Greek and Latin combined. Courses may be counted toward these majors as follows:

Major in Greek. Any course in Greek and 4 points in archaeology or classical civilization or Greek history may count.

Major in Latin. Any course in Latin and 4 points in archaeology or classical civilization or Roman history may count.

Major in Greek and Latin combined. The following combinations are possible: (a) 18 points of Greek, 10 points of Latin; (b) 18 points of Latin, 10 points of Greek. No points in archaeology or classical civilization may count.

At least one course in Greek composition and one course in Latin composition are strongly recommended.

Other fields. The work in other fields will vary with the special interest of the student and should be arranged in consultation with the department. Students will find it profitable to take courses in Greek history, or in Roman history, or in both (*History* 5, 6; 13, 14; 15, 16). A reading knowledge of French and German is advised.

CLASSICAL CIVILIZATION

55. Greek Literature in Translation. 2 points. PROFESSOR NORTH. T Th 11. [8]

57, 58. Masterpieces of Greek Thought. 6 points. PROFESSOR DAY.

A study of great Greek books and compositions of smaller compass, from the point of view of thought. The emphasis will be upon what the Greek authors have to say, not upon later interpretations of their works. Selections from Herodotus and Thucydides, selected plays of the great dramatists, Plato's *Republic* and *Laws*, and Aristotle's *Politics* and *Ethics* will be read.

Completion of this course will count in satisfaction of the humanities requirement. M W F 11. [3]

60. Latin Literature in Translation. 2 points. PROFESSOR NORTH. T Th 11. [8]

87, 88. The Tradition of the Humanities (same as English 37, 38). 6 points. MR. BOVIE.

Class discussions based on the reading of significant books in the history of European thought. *Winter Session:* The ancient world, from Homer to Vergil. *Spring Session:* Medieval and modern Europe, from Augustine to the twentieth century.

Written permission of the instructor required. Registration limited to 12. T Th 9:10–10:25. [6]

NOTE: The following courses in Classical Civilization have been offered in recent years and may be offered again: 49, 50—*Greek Life and Thought*; 53, 54—*Roman Life and Thought*; 75—*Greek Political Thought*; 77—*Classical Drama*; 78—*Comparative Literature*.

GREEK LANGUAGE AND LITERATURE

Written permission of the department required for all language courses. Courses marked thus § will satisfy the foreign language requirements, if a minimum of 6 points is taken and a grade of C– or higher is obtained.

1–2. Introductory Course. 6 points. MISS TILLYARD.

Grammar, composition, and reading. *Course 1* is prerequisite to *Course 2*. M W F 2. [5]

§11. Plato: Apology; Euripides: One Play. 3 points. PROFESSOR DAY.

Prerequisite: *Course 1-2* or three years of high school Greek or permission of the department. M W F 10. [2]

§12. Selections from Homer and Herodotus. 3 points. MISS TILLYARD.

Prerequisite: *Course 1-2* or three years of high school Greek or permission of the department. M W F 10. [2]

19-20. Prose Composition. 2 points. DR. BENARIO.

May be taken in connection with any reading course in Greek (except *Course 1-2*), but not separately, and may be taken for credit in two different years. Particularly recommended to students who have taken only *Course 1-2*. Th 1. 512 Hamilton. [0]

§21. Greek Tragedy. 3 points. PROFESSOR NORTH.

Prerequisite: *Courses 11* and *12* or permission of the department. M W F 11. [3]

§22. Thucydides. 3 points. PROFESSOR NORTH.

Prerequisite: *Courses 11* and *12* or permission of the department. M W F 11. [3]

Courses 21, 22 and *25 (Greek Oratory), 26 (Greek Comedy)* are offered in alternate years.

29-30. Prose Composition. 2 points. PROFESSOR BENEDICT.

Prerequisite: *Course 19-20* or the equivalent. May be taken in connection with any reading course in Greek, but not separately, and may be taken for credit in two different years. Th 1. 510 Hamilton. [0]

See also *Fine Arts* *43, page 96, and *History* 5, 6, page 114.

LATIN LANGUAGE AND LITERATURE

Written permission of the department required for all language courses. Courses marked thus § will satisfy the foreign language requirements, if a minimum of 6 points is taken and a grade of C- or higher is obtained.

3. Vergil: Selections from Aeneid I-VI. 3 points. MISS TILLYARD.

Prerequisite: two or three years of high school Latin or the equivalent. *Course 19-20* is strongly recommended as a parallel course. M W F 9. [1]

4. Pliny: Selected Letters; Ovid: Selections. 3 points. MISS TILLYARD.

Prerequisite: two or three years of high school Latin or the equivalent. *Course 19-20* is strongly recommended as a parallel course. M W F 9. [1]

§11. Selections from Latin Literature. 3 points. MISS TILLYARD.

Prerequisite: *Course 3* or *4* or four years of high school Latin. *Course 19-20* is strongly recommended as a parallel course. M W F 1. [4]

§12. Horace: Odes and Epodes. 3 points. PROFESSOR DAY.

Prerequisite: *Course 3* or *4* or four years of high school Latin. *Course 19-20* is strongly recommended as a parallel course. M W F 1. [4]

19–20. Latin Composition. 2 points. DR. BENARIO.

May be taken in connection with any reading course in Latin, but not separately, and may be taken for credit in two different years. Strongly recommended as a parallel to *Courses 3, 4 and 11, 12.* T 2. 510 Hamilton. [0]

§21. Juvenal: Selections; Martial: Selections; Pliny: Selections. 3 points. PROFESSOR DAY.

Prerequisite: *Courses 11 and 12* or permission of the department. T Th 9 and Th 1. [6]

§22. Cicero: Selected Letters; Ovid: Selections. 3 points. PROFESSOR RICHARDS.

Prerequisite: *Courses 11 and 12* or permission of the department. T Th 9 and Th 1. [6]

Courses 21, 22 are rotated in a three-year cycle with *Courses 25 (Cicero), 26 (Roman Drama); 27 (Lucretius), 28 (Tacitus).*

29–30. Prose Composition. 2 points. PROFESSOR BENEDICT.

Prerequisite: *Course 19–20.* May be taken in connection with any reading course in Latin, but not separately, and may be taken for credit in two different years. M 3. 507 Hamilton. [0]

HISTORY

VIRGINIA D. HARRINGTON, Ph.D., Associate Professor of History,
Executive Officer

¹BASIL RAUCH, Ph.D., Professor of History

HENRY B. PARKES, Ph.D., Visiting Professor of History

RENÉ ALBRECHT-CARRIÉ, Ph.D., Associate Professor of History

HELEN NORTH, Ph.D., Visiting Associate Professor of Greek and Latin

²CHILTON WILLIAMSON, Ph.D., Associate Professor of History

JOHN H. MUNDY, Ph.D., Assistant Professor of History

SIDNEY A. BURRELL, Ph.D., Assistant Professor of History

DORA B. WIENER, Ph.D., Instructor in History

³RUTH A. ROOSA, A.M., Lecturer in Russian Studies

ANNETTE KAR, A.M., Lecturer in History

A major in history. Students majoring in history will be required to take the following courses:

History. *Courses 1–2* and either *3–4* or *9–10*, and, if possible, one other fundamental course, such as those offered in ancient, medieval, or English history. They should then concentrate their attention on European or American history in which they will do work of a more advanced character. *Courses 1–2* and *3–4* or *9–10* should be completed by the end of the junior year. *Courses 45, 46; 47, 48; 49, 50 and 51, 52* are recommended for seniors majoring in history.

In view of the close relationship between the subject matter of history and that of government, students majoring in history may, with the written permission of the department, offer as part of the 28 points of the major requirement 6 points in government. When such courses are counted toward the major, they cannot also be counted toward the satisfaction of the requirement in other social sciences described in the next paragraph.

¹ Absent on leave, 1954–55.

² Absent on leave, Spring Session.

³ Absent on leave, Winter Session.

Other social sciences. In view of the essential unity of the social sciences, students majoring in history must elect 12 points distributed in two social sciences other than history. The courses will be selected in conference with the adviser.

Students majoring in history must acquire a reading knowledge of some foreign language.

With the work in history they may combine work in other departments to make up a group of correlated courses on some large subject, such as ancient history and philosophy or art; modern history and international relations or sociology; English history and literature or government; American history and economics; the history of thought and culture.

A three-hour examination at the end of the senior year is required of all history majors.

See also *Other Interdepartmental Offerings*, page 74.

FUNDAMENTAL COURSES

1-2. Survey of Modern European History from the Age of Discovery to the Outbreak of the Second World War. 6 points. PROFESSORS CARRIÉ, WILLIAMSON, MUNDY and BURRELL, and DR. WIENER.

Winter Session: Foundations of modern Europe; political, economic, social, and intellectual achievements from the fifteenth century to the eighteenth; the British, American, and French Revolutions; the era of Napoleon and the Congress of Vienna. *Spring Session:* Industrial Revolution; rise of nationalism; social, intellectual, and economic problems of the nineteenth century; imperialism and world politics; causes and consequences of the First World War; Fascism, Bolshevism, Nazism; causes and outbreak of the Second World War. M W F 10 (II); M W F 11 (III); M W F 1 (IV); M W F 2 (V); T Th 9:10-10:25 (VI); T Th 2:10-3:25 (VII). [16]

3-4. Introduction to the History of American Civilization. 6 points. PROFESSOR HARRINGTON and MISS KAR.

Origins, background, development, and character of American civilization; the coming of Europeans and other peoples to the Americas from the fifteenth to the twentieth centuries and an estimate of their contributions; European events as they influence the growth of the Americas. The Thirteen English Colonies and the United States as part of the American hemisphere and of the world; the emphasis to be placed on social and cultural history against the political background.

Required of prospective majors in American Civilization during the freshman or sophomore year. T Th 2 and a third hour to be arranged. [15]

5, 6. Ancient History. 6 points. PROFESSOR NORTH.

A survey of the ancient Mediterranean World. *Winter Session:* From the appearance of written records in Egypt and Mesopotamia, through the development of Greek civilization to the beginning of Roman interference in the eastern Mediterranean. *Spring Session:* Pre-Roman Italy; rise of Rome from a fortified village to ruler of the "known-world"; the character of the Roman Empire and the causes of its dissolution; the beginnings and triumph of Christianity. M W F 2. [5]

7, 8. Medieval and Renaissance History. 6 points. PROFESSOR MUNDY.

This course covers the history of Europe from the decline of the Roman Empire to the rise of the national monarchies in Western Europe. Among the topics treated are: political movements and theories, social and economic life and organization, and the evolution of the Christian Church. M W F 3. [10]

9-10. History of the American Nation from Colonies to World Power. 6 points. PROFESSOR WILLIAMSON and ———.

Winter Session: Political, social, and economic aspects of American History under the British Empire, during the Revolution, and in the early republic; territorial expansion and foreign affairs before the Civil War; political parties and sectionalism to the Compromise of 1850. *Spring Session:* The Civil War and reconstruction; nationalism and industrial capitalism; the agrarian revolt and the reform movement; the United States as a world power; the First World War and after. M W F 10. [2]

11-12. England from the Norman Conquest to the Twentieth Century. 6 points. PROFESSOR BURRELL.

A survey of the evolution of England and the British Isles from the medieval Norman monarchy through world-wide domination to the beginnings of collectivism. *Winter Session:* The Norman Conquest, the centralization and decline of the medieval monarchy; the emergence of Tudor nationalism and the beginnings of the struggle for parliamentary supremacy in the seventeenth century. *Spring Session:* The victory of parliament over the crown; the rise of "oligarchic liberalism" and the first British Empire; the industrialization of Britain and its aftermath; the "new imperialism"; the political and social changes of the nineteenth and twentieth centuries. M W F 9. [1]

25, 26. Europe since 1870. 6 points. PROFESSOR CARRIÉ.

The internal evolution of the principal powers; the dominance of Bismarck's Germany; the renewal of imperial expansion and the formation of rival alliances. The First World War: origins and course; the issue of responsibility; the peace settlements; the League; the apparent liquidation of the war; the new political systems; the collapse of the nineteen-thirties. The Second World War: origins, course, and legacy.

Open to all except freshmen. M W F 10. [2]

27, 28. France since 1715. 6 points. DR. WIENER.

Winter Session: The philosophy of the Enlightenment, social change, political ineptitude, and military defeat on the continent and in the colonies viewed as causes of the French Revolution. The First Republic, the career of Bonaparte and the Napoleonic era. *Spring Session:* The Bourbon Restoration; conservative and liberal forces in the fight for power; Romanticism and Realism in politics and in the arts; failure of the Second Republic and inadequacies of the Second Empire. The Third Republic in an era of materialism and empire building. Two world wars, the fall of France and the establishment of the Fourth Republic.

Preceding or parallel, *Course 1-2.* W 4-6 and Th 1. [15]

29, 30. The Modern Mediterranean World. 6 points. PROFESSOR CARRIÉ.

Historic rôle of the Mediterranean. The Near Eastern question in the nineteenth century: the Powers and the Ottoman Empire; emancipation of the Balkan nations. The *Drang nach Südosten* and the emergence of Italy. The period of the First World War and after: the new Turkey; Arab nationalism and imperial rivalries. M W F 9. [1]

33, 34. Studies in American Colonial History. 4 or 6 points. PROFESSOR HARRINGTON.

Winter Session: Economic, religious, social, and intellectual aspects of colonial culture. *Spring Session:* The Revolutionary Movement: the ripeness of the col-

onies for rebellion; the organization of resistance; the clash of ideas as well as arms; the internal significance of the Revolution and its influence on the development of American institutions and outlook.

Open to all except freshmen. T Th 9:10–10:25. [6]

35a. History of the British Empire. 3 points. PROFESSOR WILLIAMSON.

Studies in the history of the British Empire and Commonwealth since the American Revolution. Special emphasis will be given to the development of Dominion status and to the problems of the dependent empire.

Preceding or parallel: *Course 1–2.* M W F 2. [5]

[35, 36. History of the British Empire. 6 points. PROFESSOR WILLIAMSON.

Not given in 1954–55.]

A survey of the Empire from Tudor times to the Second World War. *Winter Session:* The origins, expansion, and institutions of the mercantilistic empire to 1815. *Spring Session:* The free trade and anti-imperialist movements; the evolution of responsible government; the emergence about 1870 of the “new imperialism”; the development of the British Commonwealth of Nations; the special problems of the dependent Empire.

Preceding or parallel: *Course 1–2.*

[37, 38. History of Russia. 6 points. MRS. ROOSA.

Not given in 1954–55.]

A survey of the political, economic, and social development of Russia from the earliest times through the Second World War. *Winter Session:* From the earliest times to the Revolution of 1905, with emphasis on the period since Peter the Great; political evolution and geographic expansion; the impact of western ideas on Russian culture and society; the rise and fall of serfdom; industrial and commercial development; the beginning of revolutionary movements. *Spring Session:* 1905 through the Second World War; the last decade of the Empire; the Revolution of 1917; the Soviet Union—War Communism, the New Economic Policy, the Five Year Plans, wartime and post-war developments.

Open to all except freshmen.

[41–42. History of Science. 6 points. PROFESSOR CARRIÉ.

Not given in 1954–55.]

The development of the main currents of scientific thought, pre- and post-Renaissance, emphasizing the historical relationship between the scientific and the social, economic, and cultural aspects of western civilization.

Open to juniors and seniors only. *Course 41* is prerequisite to *Course 42.*

43. The History of Education in the United States. 3 points. PROFESSOR HARRINGTON.

The development of education in the United States presented and assessed against the background of political, philosophical, religious, and scientific thought. Emphasis will be placed upon the social and intellectual forces which have shaped educational purposes, programs, and institutions. M W F 2. [5]

45, 46. Readings in Historiography. 8 points. PROFESSOR BURRELL.

Readings and research into the ideas and methods of historical study from the beginnings of western civilization to the twentieth century. Introduction to historical criticism.

Open to seniors on written permission of the instructor. T 4–6 and frequent conferences. [0]

[47, 48. Seminar in American Civilization. 8 points. -----.

Not given in 1954-55.]

Readings in primary sources on diverse aspects of American civilization and presentation of results for seminar discussion.

Open to senior majors in American Civilization on written permission of the instructor.

[49, 50. Seminar in European Civilization. 8 points. PROFESSOR CARRIE.

Not given in 1954-55.]

Research into the literature of European issues such as nationalism, socialism, and the balance of power. Presentation of results for seminar discussion.

Open to seniors on written permission of the instructor.

51, 52. Colloquium in the Literature of American History. 8 points. PROFESSOR HARRINGTON.

Extensive reading and discussion of the work of classic figures in American historiography, such as Bancroft, Parkman, Prescott, Hildreth, and of significant monographic literature and major writings of more recent times.

Open to seniors on written permission of the instructor. T 4-6 and frequent conferences. [13]

58. History of Religion in America. 3 points. PROFESSOR HARRINGTON.

The history of religious thought and institutions in the United States from colonial times to the present. Special attention will be paid to the developments of the nineteenth and twentieth centuries. M W F 1. [4]

83, 84. History of United States Foreign Relations. 6 points. PROFESSOR PARKES.

The history of American diplomacy from the Secret Committee on Correspondence to recent times, with attention to domestic and foreign influences on the qualities and actions of American leaders.

Preceding or parallel: *Course 3-4 or 9-10.* T Th 3 and conferences. [13]

[85, 86. Studies in Twentieth Century American History. 6 points. PROFESSOR RAUCH.

Not given in 1954-55.]

Economic, social, political, and cultural topics will be studied by means of lectures, individual reading programs, written reports, and group discussions.

Preceding or parallel: *Course 3-4 or 9-10.*

***87-88. The History and Culture of Latin America. 6 points. MR. MORSE.**

Winter Session: Indian and Iberian backgrounds; conquest of America; cultural clash and fusion; topical analysis of colonial institutions, society, arts; eighteenth-century reforms; wars for independence. *Spring Session:* Historical survey of nations and regions (1825-1950), followed by thematic treatment of modern Latin America's peoples and customs, institutions, economy, religion, cultural expression, international relations. T Th 11-12:15.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. Ordinarily a minimum of 18 points in history at

Barnard, or in special cases, the equivalent thereto in courses in other social sciences, is required as a prerequisite. A description of the graduate courses will be found in the Announcement of the Faculty of Political Science.

HYGIENE

Modern Living. 2 points. DR. NELSON.

Spring Session: This course is required of all transfers who have not passed the Barnard exemption test. T Th 10. [7]

ITALIAN

MARISTELLA DE PANIZZA BOVÉ, Litt.D., Assistant Professor of Italian,
Executive Officer

ELIZABETH CZONICZER, Ph.D., Lecturer in Italian

A major in Italian. Students majoring in Italian will be required to take:

Italian. Courses 3, 4; 7, 8; 13, 14; 15, 16; 17, 18; 19, 20; 21, 22, and other courses to be arranged in consultation with the department. Courses 1–2, 3, 4, and 5, 6 do not count toward the major requirement.

Other fields. Courses to be chosen in consultation with the department from the following: *English* 43; *Fine Arts* 51, 52; 61; 63; R65; *History* 29, 30; *Philosophy* 61–62. Two years of French or German or Spanish. Some knowledge of Latin is also desirable.

LANGUAGE COURSES

1–2. Introductory Full-Year Course. 8 points. PROFESSOR BOVÉ and DR. CZONICZER.

Grammar, easy reading, conversation.

This course may not be taken parallel to *Spanish* 1–2. M T W Th F 9. [17]

3, 4. Intermediate Course. 6 points. PROFESSOR BOVÉ and DR. CZONICZER.

Winter Session: Translation, conversation, composition. *Spring Session:* Reading of texts which will introduce the student to Italian literature.

Prerequisite: *Course* 1–2 or the equivalent. Conducted in Italian. T Th 11 and F 2. [8]

[5, 6. Italian Conversation. 2 points. DR. CZONICZER.

Not given in 1954–55.]

No credit unless taken in connection with another Italian course.

7, 8. Composition and Advanced Translation. 2 points. PROFESSOR BOVÉ.

Hours to be arranged.

LITERATURE COURSES

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C– or higher is obtained.

[13, 14. Dante: “La Divina Commedia.” 6 or 8 points. PROFESSOR BOVÉ.

Not given in 1954–55.]

Prerequisite: *Course* 3, 4 or the equivalent. With the written permission of the department this course may be taken for credit in two different years. Conducted in Italian.

§15, §16. The Italian Renaissance. 6 or 8 points. PROFESSOR BOVÉ.

Petrarca; Marsilio Ficino, Pomponazzi; Machiavelli, Guicciardini; Castiglione; Ariosto, Tasso; Galileo; Giordano Bruno.

Prerequisite: *Course 3, 4* or the equivalent. Conducted in Italian. M 2-4 and W 3 and one hour of class discussion with Dr. Czoniczer to be arranged. [10]

[§17, §18. Italian Literature of the Nineteenth Century. 6 or 8 points. PROFESSOR BOVÉ.

Not given in 1954-55.]

Italian romanticism. Foscolo, Leopardi, Manzoni, Carducci, Pascoli, D'Annunzio.

Prerequisite: *Course 3, 4* or the equivalent.

19, 20. Dante, Petrarca, Boccaccio. 4 or 6 points. PROFESSOR BOVÉ and DR. CZONICZER.

The origin of Italian literature. The "dolce stil nuovo." Analysis of the works of Dante, Petrarca, and Boccaccio. The seminar, in which the works will be read in the original, is intended for all those having an elementary knowledge of Italian. No knowledge of Italian is required of those attending the lectures only. Conducted in English. T 4-6. [19]

[21, 22. Italian Humanism and Renaissance. 4 or 6 points. PROFESSOR BOVÉ and DR. CZONICZER.

Not given in 1954-55.]

Historical and philosophical background. The arts seen in relation to literature. Readings from representative poets and writers. Special attention will be given to Poliziano, Lorenzo il Magnifico, Pulci, Boiardo, Ariosto, and Tasso. The seminar, in which the works will be read in the original, is intended for all those having an elementary knowledge of Italian. No knowledge of Italian is required for those attending the lectures only. Conducted in English.

23, 24. Special Reading. 2 or 4 points. DR. CZONICZER.

Discussions on readings in Italian art, history, science, music, and letters. Individual reading assignments are given in that field of Italian culture most intimately associated with the student's major interests.

Required of majors to whom this course offers an opportunity to supplement and coördinate their work in other courses. With the written permission of the department this course may be taken in two successive years. Conducted in Italian. Hours to be arranged. [0]

25, 26. Italian Prose Writers of the Twentieth Century. 4 points. PROFESSOR BOVÉ and DR. CZONICZER.

T Th 10. [7]

27, 28. Seminar in Italian and Russian Literature of the Nineteenth and Twentieth Centuries (same as Interdepartmental 11-12). 6 points. PROFESSOR BOVÉ and MR. ULANOV.

An examination of the striking parallels and few contrasts between the two literatures in this period. *Winter Session:* The emergence of Russian poetry based upon Italian models. Manzoni's *The Betrothed*, Tolstoi's *War and Peace* and the bourgeois ideal. Dostoevski, Leopardi and the melancholy view of human nature. The rejection of Romanticism in both countries. *Spring Session:* The conflict between liberalism and totalitarianism as reflected in the two literatures. Russian

and Italian Futurism. Chekhov and Pirandello. Slavic experimentalism and Italo Svevo. Dostoevski and D'Annunzio. Literature under Fascism compared with literature under Communism. Dostoevski's vision of the totalitarian state. W 4-6.

***195, 196. Readings in Italian Literature.** 6 points. PROFESSOR BOVÉ.

Intensive analysis of selected Italian masterpieces. Conducted in English. Th 5-7. 401 Hamilton.

[*197, 198. Literary Italian. 6 points. PROFESSORS DE NEGRI and BOVÉ.

Not given in 1954-55.]

An intensive course in the Italian language based on a study of easy but culturally significant texts. Grammatical introduction and syntactical explanations. No previous knowledge of Italian is required but the student must be familiar with Latin or one of the romance languages. Open only on written permission of Professor de Negri or Professor Bové.

LATIN

See Greek and Latin

LINGUISTICS

See Anthropology

MATHEMATICS

EDGAR R. LORCH, Ph.D., Professor of Mathematics,
Executive Officer

DOUGLAS DICKSON, A.M., Instructor in Mathematics

JACQUELINE PENEZ, Ph.D., Instructor in Mathematics

A major in mathematics. Students majoring in mathematics will be required to take:

Mathematics. A minimum of 28 points including the calculus sequence, *Mathematics* 31, 32, 33, or the equivalent, and, in addition, courses selected with the approval of the department. For additional information regarding courses in mathematics, the student is urged to consult the current Announcements of Columbia College, the School of General Studies, and the Faculty of Pure Science. The major examination will be given in two parts, both written. The first will concern the material covered in analytic geometry and the calculus sequence. The second will be based on the elective courses (work beyond the calculus) taken by the student.

Other fields. Usually a major in mathematics finds it advantageous to supplement her mathematical studies with work in allied subjects. For example, courses in physics, chemistry, or statistics are frequently elected. The choice of these related courses will vary with the interests of the student and must be chosen in consultation with the department.

1 (or R1). Trigonometry. 3 points either session. MR. DICKSON and ———.

Trigonometric functions, logarithms, solutions of triangles, identities, trigonometric equations, graphs of the trigonometric functions, complex numbers, De Moivre's theorem.

Winter Session only: 1 — M W F 9. [1]

Spring Session only: R1 — M W F 10. [2]

6. Algebra and the Theory of Equations. 3 points. MR. DICKSON.

The complex number system, theory of equations, determinants of order n and their application in solutions of systems of n linear equations, mathematical induction, permutations and combinations, probability. This course is recommended for those students in the biological and social sciences who can devote only a limited amount of time to mathematical studies.

Prerequisite: Algebra through quadratic equations. M W F 10. [2]

7-8. Mathematical Analysis. 6 points. MR. DICKSON and ———.

A general cultural course designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. The subject matter will include topics from algebra, trigonometry, analytic geometry, differential and integral calculus. The emphasis will be upon the appreciation of the philosophy of mathematics and will reduce to a minimum the development of technical skills and the applications to specific problems. This course is not recommended for students of the physical sciences and is not open to students planning to major in mathematics. M W F 2 (I); 3 (II). [12]

22 (or R22). Analytic Geometry. 3 points either session. MR. DICKSON and ———.

In the analytic geometry of the plane, topics covered will include rectangular and polar coördinate systems, parametric equations, loci and their equations, the straight line, the conic sections, translations and rotations. An introduction to the analytic geometry of space will include planes, straight lines, and quadric surfaces.

Prerequisite: *Course 1.*

Winter Session only: R22 — M W F 9. [1]

Spring Session only: 22 — M W F 9 (I); and M 3 T Th 9 (II). [12]

31-32 (or R32-R31). Calculus. 6 points. MR. DICKSON and ———.

Differential and integral calculus. *Winter Session:* Derivatives and their applications. Tangents, maxima and minima, curve tracing, curvature, rectilinear and curvilinear motion, law of the mean. *Spring Session:* Integration. Applications to geometry and physics: areas, volumes, arc length, centroids, mass, fluid pressure, infinite series of constant terms, power series.

Students electing R31 in the Spring Session must take R32 in the following Winter Session. Prerequisite: *Course 22.*

Entire year: 31-32: T Th 10 and W 3. [7]

Winter Session: R32 (equivalent of 32) — M W F 1. [4]

Spring Session: R31 (equivalent of 31) — M W F 9. [1]

33 (or R33). Calculus. 3 points. MR. DICKSON and ———.

Continuation of study of infinite series, Taylor's series, Taylor's formula with the remainder; partial derivatives and their applications to curves and surfaces in space; multiple integrals and their applications to geometry and physics; an introduction to vectors and vector notation.

Prerequisite: *Course 31-32.*

Winter Session only: 33 — M W F 10. [2]

Spring Session only: R33 — M W F 1. [4]

[44. The Theory of Space and Time. 3 points. ————.*Not given in 1954–55.]*

The course will be divided into two logically independent parts. The foundations of geometry: axiom systems, consistency, independence, and completeness; the consistency of hyperbolic geometry; the hyperbolic group, hyperbolic trigonometry. The elementary theory of relativity: the Galilean relativity principle; the Lorentz group, elementary relativistic dynamics.

Prerequisite: *Course 31–32.*

54. Advanced Calculus. 3 points. ————.

An introduction to various branches of mathematical analysis. Partial differentiation and multiple integrals and their applications to geometry and physics; line integrals, the theorems of Green and Stokes; Fourier series; Legendre polynomials and Bessel functions.

Prerequisite: *Course 33.* M W F 1. [4]

57. Higher Algebra. 3 points. MR. DICKSON.

An introduction to some of the fundamental concepts of modern algebra. The topics include the complex number system, groups, rings, fields, determinants and matrices.

Preceding or parallel: *Course 32.* M W F 10. [2]

***102. Algebra. 3 points. PROFESSOR MURRAY.**

Determinants and matrices; linear transformations; quadratic forms; polynomials.

Prerequisite: *Course 32.* M W F 9.

***104. Differential Equations. 3 points. PROFESSOR KOOPMAN.**

The integration of ordinary differential equations, principally by formal methods. Applications to geometry and physics.

Prerequisite: *Course 33.* M W F 11.

***105. Elements of the Theory of Functions of Complex Variables. 3 points. PROFESSOR SMITH.**

This course is intended for those who need a working knowledge of the theory of functions of complex variables as an instrument for the physical sciences and engineering; it is on a concrete and elementary level, concerning itself with methods and applications rather than with the rigorous development of abstract theory. The subjects treated are: geometry and algebra of the complex plane; derivatives and the Cauchy-Riemann equations; conformal mapping; elementary functions; the Cauchy integral theorem and formula; contour integration and residues; singularities and power series expansions; Riemann surfaces.

Prerequisite: *Course 33.* T Th 10 and F 12.

***107. Probability. 3 points. PROFESSOR LORCH.**

The classical theory of probability is developed in a rigorous fashion. The critique of the theory is implemented by the discussion of numerous examples. The topics treated include: the theorems of Tchebycheff, Bernoulli, and Poisson; Stirling's formula; the probability integral; generating functions; the normal law of error.

Preceding or parallel: *Course 33.* M W F 11.

[*110. Calculus of Finite Differences. 3 points.

Not given in 1954–55.]

The calculus of finite differences and sums is developed in analogy to the differential and integral calculus, and is then applied to the study of difference equations, special functions, infinite products, and asymptotic expansions. While the emphasis of the course is theoretical, applications are made to interpolation and approximation in tabulated data.

Prerequisite: *Course 33.*

***111. Fundamental Concepts of Mathematics. 3 points. PROFESSOR MURRAY.**

This course lays the groundwork on which almost all modern mathematics is based. Topics include sets, mappings, ordered sets, well-ordered sets, natural numbers, cardinal numbers, ordinal numbers, choice functions, Zorn's Lemma, mathematical induction, real and complex numbers, quaternions, n-dimensional spaces, Schwarz' inequality.

Prerequisite: *Course 33.* M W 1:20–2:35.

***115. Differential Geometry. 3 Points. PROFESSOR SMITH.**

The classical differential theory of curves and surfaces; intrinsic geometry on a surface; theorems in the large.

Prerequisite: *Course 33.* T Th 2:45–4.

MUSIC

¹DOUGLAS STUART MOORE, A.B., Mus.D., Professor of Music,
Executive Officer

ALICE LEVINE, A.M., Instructor in Music,
Acting Chairman for Barnard

OTTO LUENING, Professor of Music on the Joline Foundation

¹WILLIAM J. MITCHELL, A.M., Professor of Music

²CAROLYN P. LOUGHBOROUGH, A.M., Associate Professor of Music

¹JACK BEESON, M.M., Assistant Professor of Music

¹ABRAM LOFT, Ph.D., Assistant Professor of Music

¹HOWARD SHANET, A.M., Assistant Professor of Music

¹VLADIMIR USSACHEVSKY, Ph.D., Instructor in Music

¹RUDOLPH THOMAS, Lecturer in Music

Teaching staff in applied music:

¹SEARLE WRIGHT, F.A.G.O., Organist and Choirmaster of St. Paul's
Chapel, Columbia University. Organ

ALTA HILL, Piano

FRANK M. SHERIDAN, Piano

DAGMAR RYBNER-BARCLAY, Voice

¹JACOB AVSHALOMOFF, A.M., Chorus

¹HUNTER WILEY, B.S., Band

A major in music. Students intending to major in music should plan to take *Course 1–2* in the freshman year and *Course 31–32* in the sophomore year, as these courses are prerequisite to the advanced courses in literature, history, and theory which are normally included in a major program.

In general, major programs are planned to include 28 points of advanced work (exclusive of applied music and *Course 1–2*) both in literature and history, and in

¹ Officer of Columbia University offering courses open to Barnard students.

² Absent on leave, 1954–55.

theory. Ordinarily *Courses 23-24, 31-32, 33-34, 35, 41-42, and 73-74* are required. Applied music courses (a maximum of 12 points) may be counted toward the degree but are not required. Music majors, whether or not registered in courses in applied music, are required to participate in activities such as the chorus or orchestra.

Attendance at the Collegium Musicum meetings is compulsory for all music majors.

Other fields. A reading knowledge of German, Italian, or French is required. Students planning to do graduate work must have two foreign languages, one of which is German. *Italian 1-2* is recommended for its relationship with the materials of *Music 5*. *Philosophy 41-42* is recommended. Courses in history, literature, or other fields which will vary with the interest of the student should be elected after consultation with the department.

Practice rooms. The department provides practice rooms at a nominal charge for the use of students of applied music. Preference in assigning hours is given in order of application to those enrolled in courses given by the department. Application for practice time should be made to the department office, Riverside Building, during registration and the first two days of classes. Organ students should apply to the Columbia departmental secretary, 601 Journalism.

Library. Books, scores, and records are available at the Barnard College Library. The Columbia Department of Music maintains in 701 Journalism a lending library of books and scores. In addition, phonographs with a large collection of records are available to students.

LITERATURE AND HISTORY

1-2. An Introduction to Music. 4 points. PROFESSOR LUENING (*Music 1*) and MISS LEVINE (*Music 2*).

A study of the elements of musical structure designed to form intelligent habits of listening to music. The spring session is devoted to a study of selected masterpieces of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required.

This course satisfies the non-literature requirement in the humanities.
T Th 2:10-3:25. 603 Journalism. [9]

***8. Contemporary Music.** 2 points. PROFESSOR MOORE.

A survey of contemporary music from Debussy to the present.

Prerequisite: *Course 1-2* or the equivalent.

*Course *8* in conjunction with *Course *15* will satisfy the non-literature requirement in the humanities. T Th 11. 603 Journalism.

***9. The Heritage of Music.** 2 points. PROFESSOR MOORE.

An inquiry into the various forms of musical expression, designed for the non-specializing student as a continuation of *Course 1-2*. Selected compositions from the Renaissance to the present day will be studied through an interpretation of their historical, functional, and cultural significance.

Prerequisite: *Course 1-2* or the equivalent. T Th 11. 603 Journalism.

12. The Musical Expression of the Ideals of Western Culture (same as Interdepartmental 6). 2 points. PROFESSORS LOUGHBOROUGH and CHERBONNIER.

A study of the dominant motifs of western European thought as illustrated and reflected in the music of the period, 1750-1954. Readings will be assigned from religious, philosophic and literary sources. Illustrations from the visual arts will supplement the course.

Not open to freshmen or music majors. Th 3-5. [13]

***15. The Symphony.** 3 points. PROFESSOR MITCHELL.

A survey of symphonic style and structure from about 1750 to the present.
Prerequisite: *Course 1–2* or the equivalent.

*Course *15* in conjunction with *Course *8* will satisfy the non-literature requirement in the humanities. M 2, W 2–4. 608 Journalism.

***16. The Opera.** 3 points. PROFESSOR LUENING.

A rapid survey of the development of opera from Monteverdi to the present.

Prerequisite: *Course 1–2* or the equivalent. M 2 and W 2–4. 608 Journalism.

***23–24. History of Music.** 6 points. PROFESSORS LOFT and MITCHELL.

A survey of the history of music from the beginning of the Christian era to the present.

Prerequisite: *Course 31–32* or the equivalent. M W F 9. 608 Journalism.

41–42. Historical and Analytical Studies in the Literature of Music. 4 points. MISS LEVINE.

Required seminar for senior majors to supplement and coördinate previous studies. Th 3–5. 703 Journalism.

***107. Bach.** 2 points. PROFESSOR MOORE.

Study by analysis, discussion and performance of the chief works of Johann Sebastian Bach.

Prerequisite: *Course 31–32* or the equivalent. T Th 2. 609 Journalism.

[*121–122. History of Music from 1000 to 1600. 4 points. PROFESSOR HERTZMANN.

Not given in 1954–55.]

***123–124. History of Music from 1600 to 1900.** 4 points. PROFESSORS LANG and LOFT.

Discussion of the main stylistic currents from the baroque through the romantic era. Th 10–12. 703 Journalism.

Collegium Musicum. The aim of this organization is to acquaint the students with certain neglected and unfamiliar masterpieces in the literature of music, in order to supplement concert and recital programs to be heard in the city and elsewhere. All students majoring in music are required to attend the meetings and are urged to participate actively in the performance of vocal and instrumental music. The literature to be used embraces music from medieval times to the present day. Emphasis is placed upon a variety of compositions and not on finished performance.

Meetings are held several times a year in the College Parlor, Barnard Hall.

THEORY

31–32. Harmony. 6 points. MISS LEVINE and —————

A study of triads, tones of figuration, dissonance, and modulation. One hour each week is devoted to ear training. Students who register must be able to play the piano.

Prerequisite: Written permission of the instructor. M W F 1. [4]
16 Riverside.

***R31. Harmony (same as 31, but offered in the Spring Session).** PROFESSOR SHANET. M W F 11. 609 Journalism.

Course R32 will be offered in the Winter Session of 1955-56.

31a-32a. Harmony at the Keyboard. 2 points. DR. USSACHEVSKY.

A laboratory course featuring the subject matter of *Course 31-32* as applied to the keyboard. Practice in sight reading, analysis at the keyboard, the harmonization of melodies, and thorough bass realization will be stressed.

Prerequisite: Preceding or parallel, *Course 31-32*. W 2. 609 Journalism. [0]

***R31a. Harmony at the Keyboard (same as 31a, but offered in the Spring Session).** ———— Th 10. 603 Journalism.

Course R32a will be offered in the Winter Session of 1955-56.

***33. Advanced Harmony.** 3 points. PROFESSOR MITCHELL.

An analytical study of the elements of chromaticism. The exercises in various styles are taken from the literature and are designed to introduce the student to characteristic features of musical texture.

Prerequisite: *Course 31-32* or the equivalent. Parallel, advised but not required: *Course *35-36*. T 9-11 and Th 9. 603 Journalism.

***34. Analysis.** 3 points. PROFESSOR MITCHELL.

Principles of design, texture, rhythm, and the organization of musical detail as revealed through a study of compositions selected from the several periods of musical history.

Prerequisite: *Course *33*. Recommended, but not required: *Course *35*. T 9-11 and Th 9. 603 Journalism.

***35-36. Counterpoint.** 6 points. DR. USSACHEVSKY.

A study of the five species in two, three, and four parts, strict style. During the spring session students analyze and compose polyphonic pieces in various styles.

Prerequisite: *Course 31-32* or the equivalent. M W F 10. 608 Journalism.

***39-40. Composition.** 4 points. PROFESSOR LUENING.

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano.

Prerequisite: *Course *33* or written permission of the instructor. T 3-5. 604 Journalism.

73-74. Orchestration, Conducting, and Score Reading. 6 points. MR. THOMAS.

Lectures and practice in orchestration and conducting, supplemented by the presentation in class of varied instrumental groups.

Prerequisite: *Course 31-32* or the equivalent and written permission of the instructor. W 1 and F 1-3. 609 Journalism.

***131-132. Composition.** 4 points. PROFESSOR BEESON.

Free compositions in the larger forms, including fugue, for piano, organ, instrumental ensembles, and voices.

Prerequisite: *Course *39-40* or the equivalent and written permission of the instructor. F 11-1. 703 Journalism.

APPLIED MUSIC

NOTE: *Each course in applied music must be taken parallel to a theoretical or historical course in music in order to count toward the degree. A maximum of 12 points may be so counted.*

79, 80. Vocal Instruction. 2 points. (See *Note* above.) MME. RYBNER-BARCLAY.

Private lessons in voice production and in interpretation. Coaching and repertory.

No student may register for this course without consultation with the department as early in the registration period as possible. Special fee, \$100 each session; no refunds. One hour weekly to be arranged. Riverside Building.

83, 84. Organ Instruction. 2 points. (See *Note* above.) MR. WRIGHT.

Individual instruction in the technique of the instrument and a weekly class lesson, or lecture recital, on the interpretation of the works of representative organ composers.

Written permission of the instructor is required.

Consult the Columbia Music Department about registration and fees. Hours to be arranged.

91, 92. Piano Instruction for Beginners. 2 points. (See *Note* above.) MISS HILL.

Private lessons in the technique of the instrument and in interpretation.

No student may register for this course without consultation with the department as early in the registration period as possible. Special fee, \$100 each session; no refunds. Hours to be arranged. Riverside Building.

93, 94. Piano Instruction for Advanced Students. 2 points. (See *Note* above.) MR. SHERIDAN.

Private lessons in the technique of the instrument and in interpretation. Coaching and repertory.

No student may register for this course without consultation with the department as early in the registration period as possible. Special fee, \$160 each session; no refunds. Hours to be arranged. Riverside Building.

PERFORMANCE ACTIVITIES

Music majors, whether or not registered in courses in applied music, are required to participate in activities, such as the chorus or orchestra.

Columbia University Orchestra. PROFESSOR SHANET.

W 7:30–10 p.m. Full Orchestra. 113 Low Library.

T 7:30–10 p.m. String Section only. 113 Low Library.

In addition to the regular rehearsals for public concerts, there will be reading and workshop sessions in which compositions will be read and studied with no eye toward public performance, and in which qualified members may have the opportunity to read concertos as soloists with the orchestra.

Membership is open to all members of the University community, including students, faculty, staff and alumni, who can meet the musical qualifications.

Audition schedule will be posted on the departmental bulletin board during the registration period.

A limited number of persons interested in managerial work can gain experience as orchestra librarians, personnel managers, and business managers.

Columbia University Chorus. MR. AVSHALOMOFF.

M and Th 7:30–9:30 p.m. 408 Barnard Hall.

The activities of the Columbia University Chorus include concerts in McMillin Theater, broadcasts, out-of-town performances, and concerts given in conjunction with such organizations as the National Orchestral Association, the Little Orchestra Society, and the University Orchestra.

All members of the University community—students, faculty, and staff—are eligible to participate if they are musically qualified.

The repertory will consist of the representative works of the serious choral literature of all periods.

Auditions: Sept. 20–24, 12:30–1:30 p.m. and 7–9 p.m.

First rehearsal: Sept. 27.

Chapel Choir. MR. WRIGHT.

All men and women students of the University are eligible to sing in the Chapel Choir. Regular members of the choir will receive \$150 for the academic year.

Services: M W F, 12–12:20 p.m. and Sunday at 11 a.m.

Rehearsals: M W F 5–6:15 p.m.; Sunday, 9:45 a.m. Chapel Crypt.

Auditions: F September 17, 10–12 a.m.; 2–5 p.m. M September 20, 10–12 a.m.; 2–5 p.m., and T September 21, 10–12 a.m. Chapel Crypt.

Chamber Music Society

A voluntary association of performers, both instrumentalists and singers, which meets regularly at times and places to be announced, for the purpose of exploring the literature of music and preparing programs for various campus functions.

University Band. MR. WILEY.

The *marching unit* of the band appears at all major athletic events. Membership is restricted to men.

The *concert unit* gives a number of local and out-of-town concerts during the season and appears at Commencement. Membership is open to both men and women.

An audition schedule will be posted on the bulletin board of the Columbia Music Department during the registration period. T Th 4–6 p.m. 113 Low Library.

PHILOSOPHY

JOSEPH GERARD BRENNAN, Ph.D., Associate Professor of Philosophy
Acting Executive Officer

JEAN A. POTTER, Ph.D., Assistant Professor of Philosophy

H. STANDISH THAYER, Ph.D., Assistant Professor of Philosophy

¹JOSEPH L. BLAU, Ph.D., Assistant Professor of Philosophy

JOYCE SIEGAN, A.M., Lecturer in Philosophy

Philosophic study is peculiarly bound up with and dependent upon all other studies. One of the following groups is recommended, according to which subdivision of the whole field of philosophy—ethics, logic, theory of knowledge, metaphysics, esthetics—particularly interests those majoring in the subject:

¹ Officer of Columbia University giving instruction in Barnard College.

1) in connection with the study of *individual and social ethics* are certain courses in religion, psychology, anthropology, government, and sociology;

2) in connection with the study of *logic*, courses in mathematics, statistics, scientific methods, and linguistics;

3) in connection with the study of *metaphysics*, courses in the sciences of inorganic and organic nature;

4) in connection with the study of *esthetics*, certain courses in music, fine arts, psychology, anthropology, and the literatures, ancient and modern;

5) in connection with the study of the *history* of philosophic ideas, courses in the history of science and in political and social history.

By special arrangement, a limited number of points, not exceeding 6, in related departments, may count toward the 28-point requirement for a major in philosophy.

1 (or R1). Introduction to Philosophy. 3 points either session. PROFESSORS BRENNAN, POTTER and THAYER, and MISS SIEGAN.

A survey of the various divisions of philosophic inquiry, including discussion of representative problems of knowledge, nature, and value. M W F 10 (I) [2]; M W F 11 (II) [3]; M W F 2 (III) [5]; T Th 9:10–10:25 (IV) [7]

4. Metaphysics. 3 points. PROFESSOR POTTER.

An examination of some of the critical problems of metaphysics, with reference to important classic and modern treatments.

Prerequisite: *Course 1* or the equivalent. M W F 1. [4]

5. Logic. 3 points. PROFESSOR BRENNAN.

Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by examination of contemporary deductive systems. M W F 1. [4]

6. Analytic Philosophy. 2 or 3 points. PROFESSOR BRENNAN.

A study of the techniques of contemporary philosophical analysis with reference to such problems as those of meaning, certainty, perception, causality, value, and the presuppositions of the sciences.

Prerequisite: *Course 1* or 5 or written permission of the instructor. T Th 10. [7]

22. Ethics. 3 points. PROFESSOR THAYER.

Man and his concern for moral values. Discussion of various views of the good life including: Kantian ethics, utilitarianism, ethics of self-realization, naturalism, positivism, intuitionism.

Prerequisite: *Course 1*. T Th 9:10–10:25. [7]

[41–42. General Esthetics. 6 points.

Not given in 1954–55.]

A survey of the main problems of esthetic theory including the origins of art, the nature of creative imagination and esthetic experience, and the meaning of the beautiful, the sublime, the tragic, and the comic. The arts will be treated comparatively with reference to their similarities and differences of medium, subject-matter, and esthetic form, and for consideration of their relations to the experienced world and everyday living.

Open to juniors and seniors, and to qualified sophomores on written permission of the department.

43. Philosophical Implications of the Modern Novel. 3 points. PROFESSOR BRENNAN.

The following themes will be developed: the relation of man to nature and to art; the rôle played in human affairs by moral standards and values; conceptions of the dignity of man; the effect of political forces upon the individual person. Selected works of Joyce, Mann, Kafka, Gide, Malraux, Koestler, and other important novelists of the twentieth century will be discussed.

Prerequisite: *Course 1* or 41-42 or the equivalent, or written permission of the instructor.

This course cannot be counted toward the humanities requirement. M W F 11. [3]

61-62. The History of Philosophy. 6 points. PROFESSOR POTTER.

Open to juniors and seniors, and to qualified sophomores on written permission of the department. M W F 10. [2]

63, 64. Readings in Philosophy. 2 points. PROFESSOR THAYER, or the instructor in the course to which the extra hours of reading are attached.

This course may be taken only in connection with some other course in philosophy, and with the permission of the department. Hour to be arranged for individual or group conferences. [0]

65-66. Special Reading. 4 points. PROFESSOR POTTER.

Required of all majors in the senior year. T 3-5. [0]

68. Seventeenth and Eighteenth Century British Philosophy and Its Influence. 3 points. PROFESSOR THAYER.

Conceptions of experience and knowledge in Locke, Berkeley and Hume. The impact of Newton and seventeenth century science on British philosophy, and the influence of British empiricism on modern philosophy will also be discussed. T Th 10:25-11:50. [7]

72. American Philosophy. 3 points. PROFESSOR BLAU.

A brief development of the Puritan tradition in America and of the political philosophy out of which our institutions have grown will preface a consideration of the great schools of philosophy and their recent American representatives, especially Royce, James, Santayana, Dewey, and the Neo-Realists.

Prerequisite: *Course 1* or 61-62, except on written permission of the instructor.

This course cannot be counted toward the humanities requirement. T Th 10:35-11:50. [8]

[73. German Idealism. 3 points.

Not given in 1954-55.]

Prerequisite or parallel: *Course 61-62.*

This course cannot be counted toward the humanities requirement.

[74. Schopenhauer and Nietzsche. 2 points. PROFESSOR BRENNAN.

Not given in 1954-55.]

A study of the writings of these philosophers against the background of nineteenth-century romanticism and of their subsequent influence on men of art, letters, and politics.

Prerequisite: *Course 1* or 71 or 61-62.

76. Twentieth Century Philosophy. 3 points. PROFESSOR BRENNAN.

A consideration of some of the basic issues discussed in philosophies of evolution, process, existence, dialectical materialism, naturalism, and logical empiricism. Readings will include selections from writings of Bergson, Whitehead, Heidegger, Russell, Ayer, representative Marxist philosophers, and critical naturalists.

Prerequisite: *Course 1* or 61-62.

This course cannot be counted toward the humanities requirement. M W F 11. [3]

81, 82. The Philosophy of Religion (same as Religion 19, 20). 6 points. PROFESSOR CHERBONNIER.

An analysis of the nature of religion, involving discussion of its relations to theoretical knowledge, both scientific and philosophical. Materials for the analysis will be drawn from the historical religious traditions. The cultural settings of religious forms will be stressed and their meaning and function will be interpreted. In addition, the following issues will be considered: the relation of religion to morality, to theology, and to philosophy; the type of meaning present in religion; the problems of religious knowledge; the content of such basic concepts as God, faith, mysticism, worship, estrangement, reconciliation, religious community, revelation.

Open to all except freshmen.

Prerequisite: *Course 1. Religion 4* and 25 are recommended as parallel courses. M W 3 and a conference hour. [10]

84. The Philosophy of Education. 3 points. *Mar. 12.*

The values and goals of education; a study of contemporary problems against their historical backgrounds. Reading will include selections from the works of Plato, Aristotle, Milton, and Rousseau, as well as contemporary critics such as Dewey, Hutchins, Maritain, and Ortega y Gasset.

This course cannot be counted toward the humanities requirement. M W F 2. [5]

PHYSICAL EDUCATION

MARGARET HOLLAND, A.M., Associate Professor of Physical Education,
Executive Officer

MARION STRENG, A.M., Assistant Professor of Physical Education

FERN YATES, A.M., Assistant Professor of Physical Education

LELIA M. FINAN, A.M., Assistant Professor of Physical Education

MARION W. PHILIPS, A.M., Instructor in Physical Education

JEANNETTE SCHLOTTMANN, A.M., Instructor in Physical Education

BARBARA J. LANE, B.S., Instructor in Physical Education

Program. In its modern interpretation physical education is a positive contributor toward your total development, your intellectual, physical, emotional and social potentialities. The program for health, physical education and recreation is organized and supervised by the Department of Physical Education, the Medical Department and the Executive Board of the Athletic Association. Barnard College does not offer you the opportunity to major in physical education. If you are interested in this field as a profession, however, consult a member of the department.

Aim. The aim of the Medical and Physical Education Departments is to provide you with opportunities and experiences which contribute toward your total

development. The acquisition of knowledge, skills, habits and attitudes concerning health, physical activity and recreation insures for you "fitness for living" through regular participation in sports, swimming and rhythmic.

Medical Examinations and Posture Analysis. During the four years of college, you are required to report to the College Physician for three complete medical examinations and additional ones when indicated. The Department of Physical Education requires two complete posture examinations. The schedule of these examinations is found in the Physical Education Handbook. The results are expressed in terms of a health and activity grade which is a factor in determining the kind of program you pursue.

The Requirement. The Faculty requires physical education throughout the college course. *You are not recommended for your degree, if you fail to fulfill this requirement.*

Freshmen requirement is three hours per week on different days. During the first semester two of these hours are prescribed, body mechanics and rhythmic fundamentals, M W 2 (I); M W 3 (II); T Th 10 (III); T Th 11 (IV); the third hour to be elected. **Sophomore, Junior, and Senior** requirement is two hours per week on different days.

Senior Exemption. During the senior year students may be exempt from any further regular physical education activity, provided the requirements are satisfied. For details see Handbook.

Program of Activities. Two seasons each semester: Fall-winter; winter-spring. The program is posted on the Physical Education bulletin board two weeks prior to the beginning of each season.

Fall and Spring: archery; body mechanics; correctives; golf; modern dance (advanced); riding (special fee—see Handbook); softball; swimming; tennis; volley ball; water ballet.

Winter—both semesters: archery (indoor); badminton; basketball; basketball officiating; bowling (special fee—see Handbook); correctives-relaxation; fencing; folk-square dance; co-ed folk-square dance; fundamentals; golf (indoor); Greek Games, athletics and/or dance; modern dance; Red Cross life-saving (Spring semester, T Th 5–6); riding; swimming and diving; volley ball; water ballet.

In all of these activities you are advised to register according to your skill level, i.e., beginning, intermediate or advanced.

Prescribed Costume. You are required to wear the regulation costume indicated for the various activities classes. Approximate cost is \$15. For further information see Handbook.

PHYSICS

HENRY A. BOORSE, Ph.D., Professor of Physics,
Executive Officer

ALBERT G. PRODELL, Ph.D., Instructor in Physics
CLAIRE DELAGE, A.B., Assistant in Physics

A major in physics.

Physics: The major sequence begins with *Courses 3–4* and 7, 8; students with superior preparation may, on approval of the department, substitute *Course 6* for 3–4. Courses to complete the major will be arranged as far as possible in accordance with the student's interest and preparation.

Other fields. Mathematics: An adequate background in mathematics should be acquired as early as possible. Calculus is a corequisite or prerequisite for *Physics*

6 and beyond. Chemistry: one year's work. A course in the biological sciences is recommended.

3-4. General Physics. 8 or 9 points. PROFESSOR BOORSE, DR. PRODELL, and MISS DELAGE.

A third hour, following the laboratory period, is devoted to a discussion of problems and the application of physical principles. Election of the third hour is optional but is advised for all students, especially those seeking to fulfill the pre-medical requirement.

Preceding or parallel: Mathematics through trigonometry. Lec. M W F 11. Lab. (2 hours) M 2-4; T 9-11 or 2-4; Th 1-3, and if warranted by the registration, F 2-4. [3]

3a-4a. General Physics. 6 or 7 points. PROFESSOR BOORSE, DR. PRODELL, and MISS DELAGE.

Lectures identical with those of *Course 3-4*. No laboratory work. Discussion hour optional but advised.

To follow or parallel a laboratory science. M W F 11. [3]

The following courses require the permission of Professor Boorse.

R5. Modern Physics. 3 points. PROFESSOR BOORSE.

An elementary introduction to modern atomic and nuclear physics. Intended for students who have completed general physics.

Prerequisite: *Course 3-4*. M W F 2. [5]

***6. General Physics, I. Mechanics and Heat.** 4 points. PROFESSOR TOWNES and DRs. FITCH, HARRIS, MITTLEMAN, NOVICK and Assistants.

Fundamental laws of mechanics; kinematics; dynamics; work, energy, and power. Elasticity; hydrostatics. Temperature; calorimetry; change of state; gas laws.

Prerequisite: High school physics or equivalent. Parallel: Differential calculus. No credit if preceded by *Course 3-4*. Lec. M W F 9. Two consecutive hours' supervised problem work to be arranged. 301 Pupin.

***7. General Physics, II. Electricity and Magnetism.** 3 points. PROFESSOR MITCHELL and DRs. FITCH, HARRIS, MITTLEMAN, NOVICK and Assistants.

Electrostatics and properties of dielectrics; direct currents and elementary consideration of transients; electromagnetism and properties of ferromagnetic materials; introduction to alternating currents.

Prerequisite: *Course 3-4* or *6. Parallel: Integral calculus and *Course *9*. Lec. M W F 9. 301 Pupin.

***8. General Physics, III. Light and Atomic Physics.** 3 points. PROFESSOR LEDERMAN and DRs. FITCH, HARRIS, MITTLEMAN, NOVICK and Assistants.

Photometry, geometrical and physical optics, electromagnetic radiation, and introduction to atomic physics.

Prerequisite: *Course *7*. Parallel: *Course *10*. Lec. T Th 10 and S 9. 301 Pupin.

***9-10. Physical Laboratory.** 3 points. PROFESSOR LEDERMAN and DRs. FITCH, HARRIS, MITTLEMAN, NOVICK and Assistants.

Selected quantitative experiments in mechanics, heat, electricity, optics, atomic and nuclear physics.

Prerequisite: *Course 3-4* or *6. Parallel: *Course *7-8*. Three consecutive hours to be arranged.

***59. Light. 3 points. PROFESSOR LEDERMAN.**

A course in general optics. The first part is devoted to geometrical optics; later, topics in physical optics are discussed and illustrated.

Prerequisite: General physics and integral calculus. Lec. M W 11–12:20. 428 Pupin.

***63–64. Mechanics. 6 points. PROFESSOR VON NARDROFF.**

An introduction to analytical mechanics.

Prerequisite: General physics and integral calculus. M W F 9. 428 Pupin.

***67–68. Electromagnetism and Electronics. 6 points. PROFESSOR BOOTH.**

Electricity and magnetism with emphasis on lumped parameter circuits. Topics discussed will include capacitance and inductance, A.C. circuits, filter networks, and transmission lines.

Second part of course will deal with motion of charged particles in electric and magnetic fields and applications, the properties of vacuum tubes and their application, the design of amplifiers, oscillators, and special devices.

Prerequisite: *Course *7* (or ** G.S. Physics 18a*) and integral calculus. T Th S 9. 428 Pupin.

***81–82. Intermediate Laboratory Work. 4 or 8 points. PROFESSOR HAYNER and others.**

Experiments will be available in geometrical and physical optics, vacuum tubes and their circuits, atomic physics and nuclear physics. An individual program of experiments will be arranged for each student in accordance with his interests and previous experience.

Immediately after registration and not later than the end of the second day of the term, the registrant should consult Professor Hayner about assignment to a laboratory section and the schedule of experiments to be performed.

Hours: one or two four-hour periods each week to be arranged in consultation with instructor. T 1:10–5; W 6:30–10:30 p.m.; Th 1:10–5; F 1:10–5; S 9–1. Ernest Kempton Adams Precision Laboratory, 602-636 Pupin.

GRADUATE COURSES

For further information consult the Announcement of the Faculty of Pure Science.

***113. Thermodynamics. 3 points. PROFESSOR BOORSE.**

T F 2:10–3:30. 329 Pupin.

***115–116. Atomic Physics and Introductory Quantum Mechanics. 6 points. PROFESSOR KUSCH.**

T Th S 10. 420 Pupin.

***119–120. Mathematical Methods in Physics. 9 points. PROFESSOR FOLEY.**

M W F 9. 329 Pupin.

***127–128. Introduction to Theoretical Physics. 6 points. PROFESSOR SACHS.**

M W 11–12:20. 232 Pupin.

***140 or R140. Radioactivity and Physics of the Nucleus. 6 points. PROFESSOR WU (Spring Session). PROFESSOR HAVENS (Winter Session).**

T Th 11–12:20. 420 Pupin.

PSYCHOLOGY

¹RICHARD PARDEE YOUTZ, Ph.D., Professor of Psychology,
Executive Officer

S. STANSFELD SARGENT, Ph.D., Associate Professor of Psychology

BERNICE M. WENZEL, Ph.D., Assistant Professor of Psychology

WENDELL E. JEFFREY, Ph.D., Assistant Professor of Psychology

²ROBERT J. WILLIAMS, Ph.D., Assistant Professor of Psychology

DONALD A. COOK, A.M., Instructor in Psychology

EDWIN M. HUDSON, M.A., Assistant in Psychology

BETTY J. GRISWOLD, B.S., Assistant in Psychology

A major in psychology. In the work of the major, several kinds of interests are recognized. The groupings of courses given below are arranged in accordance with these interests. The student should select one of the following plans, A, B, C, or D, according to her vocational interests.

A. General psychology major.

Students completing this major will have a good general background for activities in psychology and related fields such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. This major may be completed by fulfilling the following requirements:

Psychology. Courses 1 or R1, 7–8; 9, 12, and other courses selected in consultation with the department to complete the required 28 points.

Other fields. One course in philosophy (3 points), a laboratory course (8 points) in zoölogy, physics, or chemistry. (For transfer students a laboratory course in biology will fulfill the science requirement of the department.)

Suggested groupings of additional psychology courses:

Courses 16, 26, 27, 28, 37 make a good grouping for those interested in work with children.

Courses 22, 24, 26, 37 meet the interests of students in the social sciences, social work, business and practical affairs.

B. Psychology major with emphasis on education. (See also Education page 86.)

Students interested primarily in teaching and in other phases of education may prepare themselves for this field by means of the following required courses:

Psychology. Courses 1 or R1; 7–8; 9, 12, 16, 27, 28.

Other fields. Philosophy 84, History 43, Education 1–2, 3–4.

C. Psychology major with emphasis on business and personnel.

Students interested in going directly into business or the personnel field or in taking further training in this area may complete a major by fulfilling the following requirements:

Psychology. Courses 1 or R1, 7–8, 9, 12, and other courses selected in consultation with the department to complete the required 28 points.

Other fields. Economics 1–2, 17, 18, and either 19 or 20.

D. Psychology major in preparation for graduate study.

The following major is recommended for students who plan to do graduate work in psychology or clinical psychology. (This does not apply to students

¹ Absent on leave, Winter Session.

² Officer of Columbia University giving instruction in Barnard College.

planning to enter schools of social work, schools of education, or other areas related to, but not directly in, graduate departments of psychology.)

Psychology. Courses 1 or R1, 7-8; 9, 12, 108, and other courses selected in consultation with the department to complete the required 28 points.

Other fields. One-year laboratory courses in two of the following—zoölogy (or biology), physics, or chemistry; mathematics through analytic geometry; one semester of calculus is strongly recommended; one course in philosophy (3 points).

Major Examination: The major examination in psychology customarily consists of sections on: (1) general information and integration (three hours); (2) experimental designs and techniques (one hour); and (3) areas of special interest (one hour). Students fulfilling any one of the four plans will have completed preparation for the major examination.

1 (or R1). Introduction to Psychology. 4 points. PROFESSORS SARGENT and JEFFREY, and MR. COOK.

An introduction to the chief facts, principles, and problems of normal adult psychology, through systematic study of a text, lectures, exercises, and reading in special fields. This course is a prerequisite for all other courses in psychology.

Winter Session: 1—M W F 10 (I); M W F 11 (II); T Th 10:35—11:50 (III).

Spring Session: R1—M W F 10 (I); M W F 11 (II); T Th 10:35—11:50 (III).
[11]

7-8. Experimental Psychology. 8 points. PROFESSORS SARGENT, WENZEL, and JEFFREY, and MR. COOK.

The course presents the chief problems, methods, and results of experimental psychology. Each student conducts a series of typical individual experiments, participates in certain group experiments, prepares systematic reports of results, and is introduced to the literature of experimental psychology.

Prerequisite: *Course 1* or the equivalent. Written permission required for specific section. M W 1-4 (I) limited to 16 students; M W 1-4 (II) limited to 16 students; T Th 2-5 (III) limited to 16 students; T Th 2-5 (IV) limited to 16 students. [11]

9. Introduction to Psychological Statistics. 3 points. MR. COOK.

Designed to acquaint students with quantitative methods in psychology and allied subjects. Topics included are a review of basic statistics, psychological scaling methods, statistical estimation and prediction, testing hypotheses, measuring reliability and validity, and theory of test construction.

Prerequisite: *Course 7-8.* M W F 11. [3]

12. Psychological Tests. 3 points. PROFESSOR WENZEL.

An introduction to standardized scales of mental measurement through demonstration of their nature, use, and interpretation, and practice of their administration. Each student must bring a child to be tested during at least one laboratory period.

Prerequisite: *Course 7-8.* T 2 and Th 1-4. [9]

16. Educational Psychology. 3 points. PROFESSOR SARGENT.

A survey of the applications of psychology to modern educational practice and theory. Among the topics especially emphasized are motivation, social and individual development, and the appraisal and direction of learning.

Prerequisite: *Course 1* or the equivalent. Open to all except freshmen. M F 1, W 4. [4]

22. Abnormal Psychology. 3 points. PROFESSOR YOUTZ.

A general survey of the field of psychopathology, the history of the subject, the more common forms of mental inadequacy and disturbance and their psychological interpretation, including the principles of mental hygiene and psychotherapy. Each class makes a trip to a mental hospital for clinical demonstration of certain psychoses.

Open to juniors and seniors who have had *Course 1* and one or more additional courses in psychology. T Th 11, and consultation in connection with readings for the third point. [8]

[24. Applied Psychology. 2 or 3 points. PROFESSOR YOUTZ.

Not given in 1954-55.]

Applications of psychology to problems of efficient study, of vocational guidance and selection, personnel, industrial efficiency, advertising and selling, clinical work, detection and treatment of delinquents and criminals, and other problems of practical interest.

Prerequisite: *Course 1* or the equivalent.

25. Physiological Psychology. 3 points. PROFESSOR WENZEL.

A study of the relationships between physical structure and psychological functions. Emphasis will be placed on phenomena of sensation and perception, but attention will also be given to principles of neural action, learning and retention, thinking, and speech.

Prerequisite: *Course 1* or the equivalent and one of the following: *Course 7-8, Zoölogy 1-2, or Zoölogy 9-10.* T Th 10:35-11:50. [8]

26. Psychology of Personality, 3 or 4 points. MR. COOK.

A survey of the contemporary methods and views of the description of the individual, including the factors in the development of personality and the practical aspects of personal adjustment in changing society. Attention is given to the contributions from experimental psychology.

Prerequisite: *Course 1* or the equivalent. M W F 11, and conferences in connection with a paper for the fourth point. [3]

27. Psychology of Childhood. 4 points. PROFESSOR JEFFREY.

A detailed study of human behavior in infancy and early childhood, with special emphasis on learning, emotional development, social adjustment, and modern conceptions and methods of child training and guidance. Observation of children in a nursery school for one hour each week.

Prerequisite: *Course 1* or the equivalent. M W F 10, and conferences in connection with reports for the fourth point. [2]

28. Psychology of Adolescence and Maturity. 3 or 4 points. PROFESSOR JEFFREY.

The mental, social, moral, and emotional development of adolescents and mature persons will be studied, special attention being given to such topics as guidance, adjustment, interests, motivation, home problems, sex relations, recreation, delinquency, and citizenship.

Prerequisite: *Course 27.* M W F 10, and conferences in connection with a project or paper for the fourth point. [2]

37. Social Psychology. 3 or 4 points. PROFESSOR SARGENT.

Cultural and group influences upon personality development and participation in society. Motives and frustrations in relation to social behavior; social learning, communication, social rôles and social interaction; social-psychological interpretation of public opinion, propaganda, leadership, mass behavior, social movements, prejudice, social change, and social conflicts. Contributions from psychology, sociology, anthropology, and psychiatry toward a systematic and useful integration in the field of social relations.

May count toward either a sociology or a psychology major. Prerequisite: *Course 1* or *Sociology 1-2*. M W F 3, and conference hour on a project or paper for the fourth point. [10]

[47. Advanced Experimental Problems. 3 points. PROFESSOR YOUTZ.

Not given in 1954-55.]

Original investigations will be planned and undertaken in learning, reasoning, perception, and other areas of interest to the individual class members. Designed chiefly for students who intend to do graduate work in psychology or related fields, or who show interest and capability in the conduct of research.

Open on written permission of the instructor to students who have had *Course 7-8*.

48. Individual Projects. 1, 2, or 3 points. PROFESSORS YOUTZ, SARGENT, WENZEL, and JEFFREY, and MR. COOK.

Qualified students will be guided and supervised in special projects or in the investigation of approved problems.

Open on written permission of the instructor only to majors who have had *Course 7-8*. Hours to be arranged.

108. Development of Psychological Concepts. 3 points. PROFESSOR YOUTZ.

A critical analysis of stages in the development of psychological concepts. Application to reports in current journals, both experimental and clinical. Consideration of kinds of experiments in psychological schools and systems. Each student will choose an area of interest and report on its origins and present status.

Prerequisite: *Course 7-8* or the equivalent. T Th 10, and conferences in connection with a report for the third point. [0]

RECREATIONAL LEADERSHIP

MARGARET HOLLAND, A.M., Associate Professor of Physical Education, and members of the Departments of Psychology and Sociology. Outside agencies which specialize in the fields of music, crafts, and story-telling also contribute to this course.

1 (or R1). Introductory Course. 2 points.

This course is planned to give students an intelligent understanding and appreciation of the whole field of recreation. It consists of lectures, discussions, practice and participation in recreational activities, such as community music, arts and crafts, informal dramatics, story-telling, games, and other informal social activities.

Field work prescribed in *Psychology 27, 28* and *Sociology 21-22* may be accepted in this course.

Participation in extracurricular activities related to recreation and social work is especially recommended for practice and experience. M W 4 and additional hour for field work.

RELIGION

¹URSULA M. NIEBUHR, S.T.M., M.A. (Oxon.), D.D., Associate Professor of Religion,
Executive Officer

²JOHN M. KRUMM, B.D., Ph.D., Chaplain of the University, Executive Officer of
the Department of Religion, Columbia University

²HARRY WILLMER JONES, A.B., LL.B., LL.M., Professor of Law

EDMOND LA B. CHERBONNIER, B.D., M.A. (Cantab.), Ph.D., Associate Professor
of Religion

²JOHN DILLENBERGER, B.D., Ph.D., Associate Professor of Religion

²NORMAN GOTTWALD, Ph.D., Assistant Professor of Religion

²OTIS R. RICE, JR., D.D., Associate in Religion

²MARGUERITE BLOCK, Ph.D., Associate in Religion

HARRIET BRUNDAGE, A.M., Assistant in Religion

²GEORGES FLOROVSKY, Ph.M., S.T.D. Adjunct Professor of Religion

²ROBERT GORDIS, M.H.L., Ph.D., D.D., Adjunct Professor of Religion

²HOWARD A. JOHNSON, A.B., B.D., S.T.M., Adjunct Professor of Religion

²WILLIAM R. O'CONNOR, S.T.L., Ph.D., Adjunct Professor of Religion

²JAMES A. PIKE, J.S.D., D.D., J.U.D., Adjunct Professor of Religion and Law

²PAUL TILlich, Ph.D., D.Theol., D.D., Adjunct Professor of Religion

A major in religion. Students majoring in religion will be required to take 28 points in their subject. They may offer toward their major with the written permission of the department, not more than 6 points from the following related courses:

Anthropology 17; *Classical Civilization* 87, 88; *English* 39, 40; 66; 75; *Fine Arts* 51, 52; R65, R66; *Government* 31, 32; *History* 5, 6; *Italian* 15, 16; 19, 20; 27, 28; *Philosophy* 22, 43, 61–62, 72.

1, 2. Introduction to Religion: Its Nature and Major Traditions. 6 points. PROFESSOR ———, assisted by members of the department.

Winter Session: An introductory presentation of methods and problems in the field of religion, followed by surveys of religion in primitive cultures; Egyptian and Mesopotamian religions; Hinduism, Buddhism, and Confucianism.

Spring Session: Judaism, and the major traditions of Christianity and Mohammedanism, with a concluding survey of religious movements in America. The emphasis is on literature and history.

Some lectures will be given by various members of the department in areas of their special competence. Lec. M 6:10–8. Conference Th 2:10–3:00. 208 Pupin.

[4. Religious Elements in the Heritage of Western Thought. 2 points. PROFESSOR NIEBUHR.

Not given in 1954–55.]

Religious concepts which have entered into the life and institutions of western civilization; their derivation from Biblical sources and their development in western history. Discussion of views of man, his ethical ideals and moral capacities; of the justice and righteousness of God; of history as the sphere of responsibility and decision.

¹ Absent on leave, Spring Session.

² Officer of Columbia University offering courses open to Barnard students.

5. Elements of Christianity. 2 points. DR. KRUMM.

An introduction to the main Christian doctrines as dealt with in representative Christian thinkers. The sources of doctrines of God, man, sin, Christ, salvation, the Holy Spirit, the Church, the Christian life, eschatology. T Th 10. 505 Business.

[7. Introduction to Judaism. 2 or 3 points. DR. GORDIS.

Not given in 1954-55.]

A survey of the basic tenets of Judaism, its world view and way of life, including an examination of the nature and relation of thought and practice in Conservative, Orthodox, and Reform Judaism.

9, 10. The Bible: History, Literature, and Interpretation of the Old and New Testament. 6 points.

Winter Session: (PROFESSOR NIEBUHR.) The beginnings and nature of Hebrew religion. Myths of the ancient world. Stories of the patriarchs. Moses and the covenant. The Development of the Nation. The character and significance of the prophetic movement. The exile, and subsequent religious developments. The rise of the priestly tradition. Apocalyptic and wisdom literature. Political and religious factors to New Testament times. T Th 11, and conference hour to be arranged. [8]

Spring Session: (PROFESSOR GOTTWALD and MISS BRUNDAGE.) The character of the New Testament writings, how the gospels came into existence, and the content of the early Christian belief, the letters and thought of St. Paul, the book of Acts and the spread of Christianity, the problem of the gospel in the gentile world, persecutions and heresies, and final New Testament writings.

Recommended particularly for freshmen and sophomores. Juniors and seniors may register for Religion *108a.

T Th 9. 609 Hamilton.

11. Ethical Issues in Judaism (same as 11a listed in the General Studies Announcement). 2 or 3 points. PROFESSOR GORDIS.

The place of ethics in Rabbinic, medieval and modern Judaism. The concept of human nature in Jewish tradition. Sex, family and marriage, status of women. Attitudes toward labor, property, social justice and philanthropy, "the stranger" and the underprivileged, patriotism, war and peace, nationalism and the international community. Th 4:10 to 6 and third hour to be arranged for third point. 509 Business.

19, 20. The Philosophy of Religion (same as Philosophy 81, 82). 6 points. PROFESSOR CHERBONNIER.

An analysis of the nature of religion, involving discussion of its relations to theoretical knowledge, both scientific and philosophical. Materials for the analysis will be drawn from the historical religious traditions. The cultural settings of religious forms will be stressed and their meaning and function will be interpreted. In addition, the following issues will be considered: the relation of religion to morality, to theology, and to philosophy; the type of meaning present in religion; the problems of religious knowledge; the content of such basic concepts as God, faith, mysticism, worship, estrangement, reconciliation, religious community, revelation.

Open to all except freshmen.

Prerequisite: *Philosophy 1. Religion 4 also is recommended.* M W 3 and conference hour. [10]

22. Oriental Religions. 2 points. DR. BLOCK.

An introduction to the institutions, arts, and philosophies connected with the major religious traditions native to India, China, and Japan; Hinduism, Buddhism, Confucianism, Taoism, and Shintoism. Recent developments in religion conditioned by the meeting of Eastern and Western civilization will be given attention.

Open to all except freshmen. M W 3. 401 Low.

24. Christian Ethics. 2 points. DR. KRUMM.

Sources of Christian ethical values and norms: in prophetic and apocalyptic background, in teachings of Jesus and Paul. Church and world in the Fathers, Aquinas, Reformers and modern Christianity. Treatment of contemporary issues in Christian ethics (war, race, marriage, social justice) by papers and readings. T Th 10. 505 Business.

25, 26. The Ethics of the Bible and the Judeo-Christian Tradition and Their Relation to Contemporary Issues. 6 points. PROFESSOR NIEBUHR (Winter Session); ——— (Spring Session).

The basic ethical insights and judgments of Biblical thought: their subsequent development in Jewish and Christian history, and their relevance to contemporary economic, political, and social issues. *Winter Session:* The integral place of ethics in the context of the Biblical conception of man, his world, and God. The Biblical attitude toward moral law and human freedom. The conception of personal fulfillment and the concern for social justice. *Spring Session:* The dual relation of Biblical ethics to any given social order. The critical and creative force of standards transcending historically relative norms. The alternate corruptions of utopianism and religious justification of the status quo.

Course 26 may be counted toward the contemporary society requirement.

Open to all except freshmen. M W F 9. [1]

31. Religious Interpretations of History. 3 points. PROFESSOR CHERBONNIER.

The meaning of human history as interpreted by religious thought of the East and West, including the contribution of the Hebrew prophets and the Christian tradition. M W F 11. [3]

35, 36. Special Reading. 2 or 4 points. PROFESSORS NIEBUHR and CHERBONNIER and MISS BRUNDAGE.

Designed to give the student opportunities for related readings in connection with other courses in the department. Each student is directed to a reading program under the supervision of an instructor. Conference hours to be arranged. [0]

40. The Prophets and Sages of Israel. 2 points. PROFESSOR GOTTWALD.

A more specialized study of the prophetic and wisdom literature of the Old Testament, with emphasis on the particular contributions to Biblical thought made by Amos, Hosea, Isaiah of Jerusalem, Jeremiah, Ezekiel, Second Isaiah and the author of the Book of Job. Particular attention will be given to their conceptions of God, man and history.

Prerequisite: *Course 9* or the equivalent. T Th 11. 504 Business.

41. The Writings and Thought of Paul and the Johannine Literature. 2 points. PROFESSOR GOTTWALD.

A literary and historical analysis of the Pauline and Johannine writings with the primary purpose of emphasizing their leading ideas. Specific attention will be

given to the Jewish and gentile background: the mystery religions, Gnosticism, Pauline psychology, and apocalyptic symbolism.

Prerequisite: *Course 10* or the equivalent. *Course 9* or the equivalent is recommended. T Th 11. 504 Business.

[43-44. **The Historical Background and Early Beginnings of Christianity.** 6 points. PROFESSOR NIEBUHR.

Not given in 1954-55.]

A study of the historical, philosophical, and religious background of Christianity. The world into which it came. Hellenism and Judaism of the pre-Christian era. Answers to the quest for salvation. Forms of the Christian answer in the first centuries. Their relation to contemporary thought. The Greek and the Latin tradition in the Church. *Winter Session:* Post-exilic Judaism; Graeco-Roman culture; the religious and philosophical systems of Hellenism; the Christian gospel of the New Testament. *Spring Session:* The developing gospel; early writers in the Church; their purpose and relation to the thought of their age; controversies and heresies; the great formulators of Christian thought to Augustine.

Prerequisite: *Course 9, 10* or the equivalent.

45, 46. **History of Religious Thought in the Christian West.** 6³ points. PROFESSOR DILLENBERGER.

An exposition and analysis of the thought of theologians and movements in the context of the history of the western world. Emphasis will be placed upon the formation and historical influence of religious ideas within the Christian movement and upon their relation to the cultural forces of the time. Reading from the writings of the theologians, including early Fathers, medieval theologians, and the Reformers, liberal and contemporary theologians.

Open only to juniors and seniors. T Th 2:10-3:00. 306 Hamilton. 413

TU-2:10, TH-1:10.

47-48. **Readings in History of Religious Thought in the Christian West.** 2 points. PROFESSORS DILLENBERGER, NIEBUHR, and CHERBONNIER.

To be taken only in conjunction with *Course 45, 46*. Hour for individual or group conference to be arranged.

[53. **A Survey of Eastern Orthodox Theology.** 3 points. DR. FLOROVSKY.

Not given in 1954-55.]

The foundations in thought of the spiritual life of the Orthodox Church. The historic background and present state of the Orthodox Churches and their impact on the cultural life of the nations concerned. The development of Orthodox theology and the formation of the principal liturgies.

[55. **A Survey of Roman Catholic Theology.** 3 points. DR. O'CONNOR.

Not given in 1954-55.]

After an introduction to the nature, scope, and sources of theology, the following topics will be discussed: God, the Trinity, Creation, the Incarnation, Redemption, the Doctrine of the Church, grace, the sacramental system, and eschatology. The doctrines will be presented in their historical background; at the same time their connection with the liturgy and devotional life of the Church will be considered.

57. **The Liturgy, Worship, and Institutions of the Roman Catholic Church.** 3 points. DR. O'CONNOR.

A comprehensive survey of the organization, government, and liturgical life of the Church. The course will include the origin and growth of the hierarchy,

the clerical and lay state, religious orders, the rites and ceremonies used in the administration of the sacraments and in the Mass, liturgical languages and music, the liturgical year, the sacramentals, the devotional and spiritual life of the Church. T F 7-8:15 p.m. 224 Pupin.

58. History of Religion in America. 3 points. PROFESSOR HARRINGTON.

The history of religious thought and institutions in the United States from colonial times to the present. Special attention will be paid to the developments of the nineteenth and twentieth centuries. M W F 1. [4]

60. Contemporary Movements in Roman Catholic Thought. 3 points. DR. O'CONNOR.

T F 7-8:15 p.m.

SEMINAR COURSES

[81, 82. Symposium: Interpreters of Life. 6 points. ———.

Not given in 1954-55.]

The course assembles major historians, poets, and philosophers whose works are great commentaries on western life and institutions. The aim is to introduce students to a wide range of ideas through primary sources basic for later studies of society and culture, as well as of religion and philosophy.

83, 84. Major Seminar. 6 points. PROFESSORS NIEBUHR, CHERBONNIER, and DILLENBERGER.

Consideration and discussion of selected subjects which will relate and supplement the students' reading in other courses. Written and oral reports.

Required of all majors in their senior year. T 3-5. [13]

Colloquium Rel. 1-2. 8 points. PROFESSORS DILLENBERGER and HADAS.

Reading and discussion of significant landmarks in the religious tradition of the West from the Gilgamesh Epic through the 16th century. Open only to juniors and seniors. Written permission of the instructors required. Registration limited to 15. M 7:30-9:30 p.m. 708 Philosophy.

Music 12. The Musical Expression of the Ideals of Western Culture (same as Interdepartmental 6). 2 points. PROFESSORS LOUGHBOROUGH and CHERBONNIER.

A study of the dominant motifs of western European thought as illustrated and reflected in the music of the period, 1750-1954. Readings will be assigned from religious, philosophic and literary sources. Illustrations from the visual arts will supplement the course.

Not open to freshmen or music majors. T 3-5 [15]

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. Their description may be found in the Announcement of the Faculty of Philosophy. The following courses are recommended for students who have the written permission of the department:

***108a. Literature and Thought of the New Testament.** 3 points. PROFESSOR GOTTWALD and MISS BRUNDAGE.

M W 11, and conference hour to be arranged. 227 Pupin.

***110. Religious and legal aspects of Church-State relations.** 2 points. PROFESSORS PIKE and JONES.

Joint seminar with the School of Law. Admission with permission of either instructor. M 4:10-6.

***115. The Psychology of Christian Personality.** 3 points. MR. RICE.

T 6:30-8:15 p.m. 609 Hamilton.

***116. Inter-personal Relationships in the Family and Marriage.** 3 points. MR. RICE.

T 6:30-8:15 p.m. 609 Hamilton.

***117-118. History of Religious Thought in the Christian East.** 6 points. PROFESSOR FLOROVSKY.

M Th 8:25-9:40 p.m. 316 Hamilton

***120. The History of Judaism.** 3 points. PROFESSOR GORDIS.

Th 4:10-6 p.m. 613 Hamilton.

[***122. The Apocrypha.** 3 points. PROFESSOR GORDIS.

Not given in 1954-55.]

[***124. Studies in Thomistic Theological Thought.** 3 points. PROFESSOR O'CONNOR.

Not given in 1954-55.]

***126. Protestantism and Culture.** 3 points. PROFESSOR TILlich.

W 7-8:40 p.m. 508 Butler.

***130. History of Russian Religious and Philosophical Thought.** 3 points. PROFESSOR FLOROVSKY.

M Th 7-8:15 p.m. 318 Hamilton.

[***131-132. Church and Civilization in Byzantium.** 6 points. PROFESSOR FLOROVSKY.

Not given in 1954-55.]

***134. Kierkegaard and Religious Existentialism.** 3 points. PROFESSOR JOHNSON.

M 7-8:40 p.m.

[***191-192. Religious Ideas of the Reformers.** 2 points. PROFESSOR DILLENBERGER. Admission only after consultation with instructor.

Not given in 1954-55.]

SOCIOLOGY

MIRRA KOMAROVSKY, Ph.D., Professor of Sociology,
Executive Officer

GLADYS MEYER, Ph. D., Assistant Professor of Sociology

BERNARD BARBER, Ph.D., Assistant Professor of Sociology

RICHARD E. BROTMAN, A.M., Visiting Lecturer in Sociology

—————, Assistant in Sociology

A major in sociology. Students majoring in sociology will be required to take:

Economics 1-2 and sociology courses which will vary with the interests of the student. Only one introductory course may count toward the major.

Major examination: a three-hour written examination in addition to the Graduate Record Examination.

Other social sciences. In view of the essential unity of the social sciences, a major in sociology is required to take courses amounting to at least 12 points to be distributed among at least two of the following departments: anthropology, economics, geography, government, history, philosophy, psychology, religion.

See also *Interdepartmental Offerings*, page 74.

1-2. Introduction to Sociology. 6 points. PROFESSORS KOMAROVSKY, MEYER, and BARBER.

An introduction to sociological analysis with emphasis on contemporary American society. *Winter Session:* The structure of society. The family and the other major social institutions; class stratification; various types of social groups; social codes and social control; ecology and social organization of modern communities. *Spring Session:* Social change and social problems. Social factors in contemporary problems, such as population and migration, race and group conflict, community disorganization and crime. Problems of social reorganization. For all except freshmen: M W F 10 (I); 11 (II); 2 (III); for freshmen and sophomores: T Th 9:10-10:25 (IV). [15]

21-22. Introduction to Social Work. 6 points. PROFESSOR MEYER.

The social and economic situations which lead people to seek help from welfare agencies. The structure and support of public and private welfare in the United States. Current trends in philosophy and policy of social work. Field work for one-half day a week is required and placements are arranged in approved social agencies offering supervision.

Open to juniors and seniors. It is recommended that this course be elected in the junior rather than the senior year.

Prerequisite: *Course 1-2, Economics 1-2, Psychology 1*, or the permission of the instructor. T Th 11 and a third hour for field work. [8]

31. The Family. 3 points. PROFESSOR KOMAROVSKY.

General study of the contemporary American family, dealing with social interaction at successive stages of family life, from courtship through parenthood and old age. Changing courtship mores, social and personality factors in mate selection. The marriage relationship, factors in marriage adjustment and maladjustment. The problems of modern women. The child in the family, the family as a cradle of personality. Regional, ethnic, and class variations in family patterns. Family disorganization and divorce. Programs for family reorganization.

Open to juniors and seniors. M W F 11. [3]

33. The Community. I. Rural-Urban Sociology. 3 points. PROFESSOR MEYER.

The growth and structure of the community. Forms of the community in rural and urban life. Cultural, ecological, and institutional patterns in the growth of community life and organization in city and country. Social structure and processes exemplified in recent studies of communities in America and abroad.

Prerequisite: *Course 1-2.* M W F 2. [5]

34. The Community. II. Ethnic and Minority and Intergroup Relations. 3 points. PROFESSOR MEYER.

The composition and distribution of populations; major and minority groups, and their intergroup relations, particularly within the United States. The rôle of

these groups in the structure of the community, their particular cultures, internal organization, and problems of individual adjustment.

Prerequisite: *Course 1-2.* M W F 2. [5]

35. American Social Classes. 3 points. PROFESSOR BARBER.

Analysis of modes of living, and group alignments at different social levels in American urban life. Problems of power; the extension of bureaucracy and the growth of white-collar occupations. Individual projects and field trips.

Prerequisite: *Course 1-2.* M W F 1. [4]

38. Comparative Social Institutions. 3 points. PROFESSOR BARBER.

The social institutions that exist in all societies; their different forms. Comparative materials from non-literate, other civilized (China, India, medieval Europe), and contemporary (U.S., Soviet Russia, France, Britain) societies. Principles of institutional patterning and change.

Prerequisite: *Course 1-2.* M W F 1. [4]

[39. The Sociology of Work. 3 points. PROFESSOR BARBER.

Not given in 1954-55.]

Theoretical and practical problems of various types of work and workers (e.g., executives, entrepreneurs, professionals, laborers, white-collar workers, etc.) in modern society with comparative materials from other societies.

Prerequisite: *Course 1-2.*

R41. Recent Sociological Theories. 3 points. PROFESSOR KOMAROVSKY.

A critical appraisal of the works of some American and European sociologists, particularly as they bear on the problems of social change and social movements.

Prerequisite: *Course 1-2.* T Th 10. [7]

42. Social Problems and Social Movements. 3 points. PROFESSOR KOMAROVSKY.

The natural history of social problems. Some selected social problems will be traced from their emergence through the various stages of social reform. The social and psychological aspects of social movements. Types of resistance to social reform. Techniques of social reform. The course will draw upon historical material as well as the study of some contemporary reform movements. Individual projects.

Prerequisite: *Course 1-2.* M W F 11. [3]

97, 98. Senior Seminar. 6 points. PROFESSORS KOMAROVSKY, MEYER, and BARBER.

Winter Session: Group seminar to be conducted by PROFESSOR KOMAROVSKY.
Spring Session: Individual projects under the supervision of all members of the department.

Open to senior majors. T Th 10. [0]

Psychology 37. Social Psychology. 3 or 4 points. PROFESSOR SARGENT.

Cultural and group influences upon personality development and participation in society. Motives and frustrations in relation to social behavior; social learning, communication, social rôles, and social interaction. Social psychological interpretation of public opinion, propaganda, leadership, mass behavior, social movements, prejudice, social change and conflict. Contributions from psychology,

sociology, anthropology, and psychiatry toward a systematic and useful integration of the field of social relations.

Credit in either sociology or psychology. Prerequisite: *Psychology 1* or *Sociology 1-2*. M W F 3, and conference hour on a project or paper for the fourth point. [10]

GRADUATE COURSES

***134. Recent Trends in Family Research.** 3 points. PROFESSOR KOMAROVSKY.

This course will deal with the recent developments in family theory and research in sociology and related disciplines. Representative studies will be examined and research trends assessed.

Open to qualified seniors. T 2:10-4.

***218. Sociology of Knowledge.** 3 points. PROFESSOR BARBER.

The forms of knowledge—science, myth, ideology, etc.—in various societies. Their interconnections with other social factors—political, class, economic, religious. The forms of group organization in intellectual life. Knowledge and communication in modern society. Th 2:10-4.

Certain other graduate courses given at Columbia University are also open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. A description of these courses will be found in the Announcement of the Faculty of Political Science.

SPANISH

AMELIA A. DE DEL RÍO, A.M., Associate Professor of Spanish,
Executive Officer

¹EUGENIO FLORIT, LL.D., Associate Professor of Spanish

MARGARITA DA CAL, Ph.D., Assistant Professor of Spanish

LAURA R. DE GARCÍA-LORCA, L.F.L., Instructor in Spanish

A major in Spanish. Students majoring in Spanish will be required to take: *Spanish. Courses 13, 14; 15a-16a; 19, 22, and 23-24; and either 17-18, 25-26, 27-28, or a more advanced course to be chosen in consultation with the department. Courses 1-2; 3, 4; 3a, 4a, and 9-10 do not count toward the major requirement.*

Other fields. Courses will vary with the special interest of the student and should be arranged in consultation with the department.

LANGUAGE COURSES

1-2. Elementary Full-Year Course. 8 points. PROFESSOR DACAL and MRS. GARCÍA-LORCA.

Grammar, reading, conversation.

May not be taken parallel to *Italian 1-2*. M T W Th F 9 (I); 2 (II). [17]

3, 4. Intermediate Course. 6 points. PROFESSORS DEL RÍO and DACAL.

A rapid review of grammar and syntax, conversation, and reading and discussion of important works in Spanish and Spanish American literatures. M W F 9 (I); 1 (II). [17]

¹ Absent on leave, Spring Session.

3a. Intermediate Course in Grammar and Composition. 3 points. MRS. GARCÍA-LORCA.

The equivalent of *Course 4* given for students who have had three years of high school Spanish. Emphasis on oral self-expression and written translation. M W F 11. [3]

4a. Advanced Course in Grammar and Composition. 3 points. MRS. GARCÍA-LORCA.

Emphasis on original composition and translation from Spanish into English. Prerequisite: *Course 3a* or *4*. M W F 11. [3]

5, 6. Spanish Composition. 4 points. PROFESSORS DEL RÍO and DACAL.

Study of the style of modern authors, oral and written composition, and original writing of short stories, short plays, and essays.

Prerequisite: *Course 3, 4* or *4a*. T Th 11. [0]

5x, 6x. Spanish Composition. 4 points. PROFESSOR FLORIT.

Rapid review of grammar and intensive translation from Spanish into English; sight reading and prepared translation.

Prerequisite: *Course 3, 4* or *4a*. T Th 9. [0]

9-10. Intermediate Spanish Conversation. 2 points. Members of the department.

Open only to students taking another Spanish course, either session. T 3 (I); Th 1 (II); Th 3 (III). [0]

11-12. Advanced Spanish Conversation. 2 points. PROFESSOR FLORIT.

Discussion and reports on Spanish subjects.

Prerequisite: *Course 9-10*. Open only to students taking another Spanish course, either session. Th 1 (I); 2 (II). [0]

31-32. Oral Spanish, Advanced Course. 4 points. PROFESSOR DEL RÍO and members of the department.

Discussion based on readings of outstanding works of Spanish literature, reports on varied subjects, recitation of representative poetry.

Prerequisite: *Course 3, 4* or *3a, 4a*, or permission of instructor. Two class hours and one conference. Hours to be arranged. [0]

LITERATURE COURSES¹

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken, and a grade of C- or higher is obtained.

R13, R14. The Culture of the Hispanic Countries. 4 points. PROFESSOR FLORIT and MRS. GARCÍA-LORCA.

Winter Session (R14): The history and culture of Spain. PROFESSOR FLORIT.

Spring Session (R13): The development of Spanish American culture. MRS. GARCÍA-LORCA.

Prerequisite: *Course 3, 4* or *5, 6*. T Th 10. [7]

¹ All courses are conducted entirely in Spanish.

§15–§16. Introduction to Spanish Literature. 6 points. PROFESSOR DACAL and MRS. GARCÍA-LORCA.

Lectures on the history of Spanish literature, reading, reports, and discussion of the outstanding works and authors up to the twentieth century. Not open to majors.

Prerequisite: *Courses 3, 4 or 3a, 4a, or 5, 6.* M W F 10 (I); 11 (II). [17]

§15a–§16a. Spanish Literature. 6 points. PROFESSOR DEL RÍO.

Spanish literature from its origins to the end of the seventeenth century, with emphasis on Cervantes.

Intended for students majoring in Spanish and Spanish-speaking students. Open also to qualified students on written permission of the instructor. Not open to those who have taken *Course 15–16*.

Prerequisite: *Courses 3, 4 or 3a, 4a, or 5, 6.* M W F 10. [2]

[17–18. The Spanish Drama of the Golden Age. 6 points. PROFESSOR DEL RÍO.

Not given in 1954–55.]

Winter Session: Reading and discussion of the medieval antecedents and the sixteenth-century theater, including Lope de Vega. *Spring Session:* The theater after Lope de Vega with emphasis on Calderón.

Prerequisite: *Course 15–16.*

19. Nineteenth-Century Novel. 3 points. PROFESSOR DACAL.

Prerequisite: *Course 13, 14 or 15–16 or the written permission of the department.* T Th 2. [9]

§22. Contemporary Spanish Literature. 3 points. PROFESSOR DEL RÍO.

A study of outstanding authors from 1898 to the present day.

Prerequisite: *Course 13, 14 or 15–16 or the written permission of the department.* T Th 2. [9]

§23. Spanish American Literature. 4 points. PROFESSOR FLORIT.

Lectures, reading, and reports on the history of Spanish American literature up to the present time.

Prerequisite: *Course 13, 14 or 15–16 or the written permission of the department.* T Th 11. [8]

[25–26. Cervantes. 6 points. PROFESSOR DEL RÍO.

Not given in 1954–55.]

Lectures, reading, and discussion of Cervantes' novels and theater.

Prerequisite: *Course 15–16.*

§27–§28. Spanish Poetry. 6 points. PROFESSORS DEL RÍO and FLORIT.

A study of the development of the poetry of Spain from its origin to the present time.

Prerequisite: *Course 15–16.* M W F 1. [4]

29, 30. Special Reading. 4 points. PROFESSORS DEL RÍO, FLORIT, and DACAL, and MRS. GARCÍA-LORCA.

Discussion on assigned readings to coördinate and supplement the work done in other courses.

Open only to seniors. Hours to be arranged. [0]

ZOÖLOGY

INGRITH J. DEYRUP, Ph.D., Associate Professor of Zoölogy
Executive Officer

JOHN A. MOORE, Ph. D., Professor of Zoölogy

AUBREY GORBMAN, Ph.D., Professor of Zoölogy

¹EDWARD S. HODGSON, Ph.D., Assistant Professor of Zoölogy

EUNICE M. WOOD, A.M., Assistant in Zoölogy

PAMELA ALEXANDER, A.B., Assistant in Zoölogy

ANN C. GILBERT, A.B., Assistant in Zoölogy

NANCY E. WEBER, A.B., Assistant in Zoölogy

A student majoring in zoölogy should aspire to knowledge of the morphology and physiology of animals, the interrelationships of animals with one another and with the inanimate world, and the bearing of this study upon the problems of living organisms in general. In addition, a major in zoölogy should lead to an appreciation of the principles and objectives of modern biological research.

A major in zoölogy. Students majoring in zoölogy will be required to take:

Zoölogy. Course 1-2, 3, 14, and 15 and additional courses to total 28 points. In general, it is recommended that students take *Course 3* immediately after completing *Course 1-2*.

Other fields. The work will vary with the interests of the student, and should be arranged in consultation with the major department. If a student plans to enter medical school or to undertake graduate work in zoölogy, she should take a year of physics, and chemistry courses including introductory, analytic, and organic chemistry. If possible, either French or German should be taken in fulfillment of the language requirement.

Transfer students should consult a member of the department to plan a program that will integrate any zoölogy (or biology) courses taken elsewhere with the Barnard offerings.

Students are encouraged to do summer work at zoölogical laboratories, such as the Marine Biological Laboratory at Woods Hole, Mass. Assistance toward such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund.

1-2. General Zoölogy. 10 points. PROFESSOR MOORE and Assistants.

An elementary course covering the general characteristics of living organisms, the major invertebrate phyla, the important parasites of man, the structure and development of the vertebrates, human physiology, heredity, and evolution. Lec. M W F 9. Lab. (4 hours) M 1-5 (I); W 1-5 (II); Th 1-5 (III); F 1-5 (IV). [1]

¹ Absent on leave, 1954-55.

1a-2a. General Zoölogy. 6 points. PROFESSOR MOORE.

Lectures identical with those of 1-2. No laboratory work.

To follow or parallel a laboratory science. M W F 9. [11]

3. A Study of Biological Concepts. 4 points. PROFESSOR HODGSON.

An historical survey will be made of discoveries in a specific field of biology and these will be analyzed as examples of the manner in which scientific knowledge is accumulated.

Prerequisite: *Course 1-2* or special permission. Lec. T Th 9. Lab. F 1-5. [6]

8. Biology of the Vertebrates. 4 points. PROFESSOR HODGSON.

An intermediate course integrating morphological and physiological phenomena in the vertebrates.

Prerequisite: *Course 1-2*. Lec. T Th 10. Lab. F 1-5. [7]

13. Histology and Histological Methods. 5 points. PROFESSOR GORBMAN.

The microscopic anatomy of vertebrates studied in its descriptive, developmental, comparative, and functional aspects. A portion of the laboratory work is devoted to preparation of tissues for microscopic study.

Prerequisite: *Course 1-2*. Lec. T Th 11. Lab. and conferences (6 hours): W 1-5 or Th 1-5 and additional project hours at the students' convenience. [8]

14. Embryology. 4 points. PROFESSOR GORBMAN.

An introductory study of the development of the vertebrate animal, with a consideration of some of the factors which influence development.

Prerequisite: *Course 1-2*. May be taken parallel to *Course 2* with permission of the instructor. Lec. T Th 11. Lab. (4 hours) W 1-5 or Th 1-5. [8]

15. General Physiology. 6 points. PROFESSOR DEYRUP.

A study of the physical characteristics, chemical composition and properties of protoplasm and of various cell components. Energy transformations, and characteristic activities of various types of cells (muscle contraction, nerve conduction, secretion, etc.) will be discussed in detail.

Lec. M W F 10. Lab. M W 2-5. [2]

61, 62. Problems in Zoölogy. PROFESSORS DEYRUP, GORBMAN, HODGSON, and MOORE.

Work will be planned to suit the needs of students after consultation with the instructors. Hours and credit by arrangement. [0]

72. Senior Seminar. 2 points. PROFESSORS DEYRUP, GORBMAN, HODGSON, and MOORE.

Discussion period: T 2. [0]

101. Invertebrate Zoölogy. 6 points. PROFESSORS HODGSON and MOORE.

A study of morphological and physiological phenomena in the invertebrates, with special emphasis on the fundamental problems which are best studied in these forms.

Prerequisites: *Course 1-2* or equivalent and the permission of the department. Some knowledge of organic chemistry will be useful. Lecture-conferences: M W F 9. Lab. M W 10-1. [11]

129. Comparative Endocrinology. 3 points. PROFESSOR GORBMAN.

Comparative physiology, morphology and development of the endocrine systems. The relation of endocrine secretions to environmental adaptations, behavior, and reproduction of animals.

Prerequisites: *Courses 1-2 and 13.* Organic chemistry is recommended. Lec. M W F 9. [1]

130. Experimental Procedures in Endocrinology. 3 points. PROFESSOR GORBMAN.

The basic laboratory procedures used in the study of endocrine phenomena, including familiarization with biochemical preparations, bioassay, surgery, and radioisotopic tracers.

Prerequisite: *Course 129* and written permission of the instructor. Lab. M 1-4 and three hours to be arranged. [0]

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified students with the consent of the department and the Committee on Programs and Standing of Barnard College. A description of these courses will be found in the Announcement of the Faculty of Pure Science.

EXAMINATION GROUPING OF BARNARD COLLEGE COURSES 1954-1955

Courses in Barnard College are arranged in examination groups in order to avoid conflicts on the examination schedule. These groups are indicated by Arabic boldface numerals in brackets immediately following the class hours. Group 0 includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group (except Group 0) *without making special arrangements through the Registrar's office.*

Group [1] M W F 9

Botany 13; 16
Chemistry 41a, 42a (and Th 1)
Economics 17, 18
English 37, 38
English 41, 42 (W F 9)
English 81; 82
French 17, 18
General Biological Science
Geology 1a, 2a
German 35
Government 5, 6 (I)
History 11-12; 29, 30
Latin 3; 4
Mathematics 1; R22; R31
Religion 25, 26
Zoology 1-2; 1a-2a
Zoology 101; 129

Group [2] M W F 10

Chemistry 23; 24; 26
Economics 19, 20
Fine Arts 61; 70
French R4; R5; 23-24
Geography 3; 10
German 5, 6
Government 11, 12
Greek 11; 12
History 9-10
History 25, 26
Mathematics R1; 6; 33; 57
Philosophy 1 or R1 (I)
Philosophy 61-62
Psychology 27; 28
Spanish 15a-16a
Zoology 15

Group [3] M W F 11

Chemistry 105, 106
Classical Civilization 57, 58
Economics 15; 24
English 59, 60; 65
Fine Arts 91, 92
French 25, 26
Geography 5; 12
German 7, 8
Government 3, 4 (I)
Greek 21; 22
Philosophy 1 or R1 (II)
Philosophy 43; 76
Physics 3-4; 3a-4a
Psychology 9; 26 (M W 11)
Religion 31
Sociology 31; 42
Spanish 3a; 4a

Group [4] M W F 1

Anthropology 8
Chemistry 145
Economics 7-8
English 25, 26
English 63; 66; 74; 75
Fine Arts 65; 68; 78
French 13, 14
French 27, 28
Geography 15, 16
Government 18; 21
Latin 11; 12
Mathematics R32; R33; 54
Music 31-32
Philosophy 4; 5
Psychology 16 (M F 1 and W 4)
Sociology 35; 38
Spanish 27-28

Group [5] M W F 2

Botany 151; 152
 Chemistry 150
 English 36; 71; 83
 Fine Arts 51, 52
 French 21, 22
 Greek 1-2
 History 5, 6; 35a; 43; 58
 Philosophy 1 or R1 (III)
 Philosophy 84
 Physics R5
 Sociology 33; 34

Group [6] T Th 9

Botany 1-2 (T Th 9 and Th 1)
 Botany 1a-2a (T Th 9 and Th 1)
 Botany 9; 14
 Classical Civilization 87, 88
 (T Th 9: 10-10:25)
 English 39, 40 (T Th 9:10-10:25)
 English 47, 48
 English 86 (T Th 9:10-10:25)
 Foundations of Language Learning
 French 11, 12; 29; 126
 Geology 19; 28W
 German 27; 28
 Government 25, 26 (T Th 9:10-10:25)
 History 33, 34 (T Th 9:10-10:25)
 Latin 21; 22 (T Th 9 and Th 1)
 Zoology 3

Group [7] T Th 10

Anthropology 1, 2
 Economics 29; 32 (T Th 10:35-11:50)
 Fine Arts 63 (T Th 10 and Th 1)
 French 9, 10
 French 33, 34
 Geology 15
 Italian 25, 26
 Mathematics 31-32 (T Th 10 and W 3)
 Modern Living
 Philosophy 1 or R1 (IV) (T Th 9:10-10:25)
 Philosophy 6; 22 (T Th 9:10-10:25)
 Psychology 22 (T Th 10 and third hour)
 Spanish R13, R14
 Zoology 8

Group [8] T Th 11

Classical Civilization 55; 60
 English 43, 44 (T Th 10:35-11:50)
 English 67, 68 (T Th 11 and Th 1)
 Fine Arts 75, 76 (T Th 10:35-11:50)
 French 15, 16
 Geology 1; 2 (T Th 11 and Th 1)
 Government 3, 4 (II-T Th 10:35-11:50)
 Italian 3, 4 (T Th 11 and F 2)
 Philosophy 72 (T Th 10:35-11:50)
 Psychology 25 (T Th 10:35-11:50)
 Religion 9
 Sociology 21, 22 (T Th 11 and third hour)
 Spanish 23
 Zoology 13; 14

Group [9] T Th 2:10

Botany 7-8
 Economics 27; 28 (T Th 2:10-3:25)
 English 69, 70 (T Th 2:10-3:25)
 English 79, 80
 Fine Arts R65; R66
 Geography 17
 Government 31, 32 (T Th 2:10-3:25)
 Music 1-2 (T 2 and Th 2-4)
 Psychology 12 (T 2 and Th 1-4)
 Spanish 19; 22

Group [10] M W F 3:10

Anthropology 108 (M W 3)
 Education 1-2
 English 57
 English 61, 62; 64
 Government 27, 28
 History 7, 8
 Italian 15, 16 (M 2-4 and W3)
 Philosophy 81, 82 (M W 3 and third hour)
 Psychology 37
 Religion 19; 20 (M W 3 and third hour)

Group [11]

Psychology 1 or R1 (Sections)
 Psychology 7-8 (Sections)

Group [12]

Mathematics 7-8 (Sections)
 Mathematics 22 (Sections)

Group [13]

Fine Arts 97–98 (T 3–5)
 History 83, 84 (T Th at 3)
 Music 12 (Th 3–5)
 Religion 83, 84 (T 3–5)

Group [14]

French 1–2 (Sections)
 French 3, 4 (Sections)
 French R4 (Sections)
 French 5, 6 (Sections)
 French 5x, 6x (Sections)
 French 7, 8 (Sections)

Group [15]

German 1–2 (Sections)
 German 3, 4 (Sections)
 History 3–4 (Sections)
 History 27, 28 (W 4–6 and Th 1)
 Music 12
 Sociology 1–2 (Sections)

Group [16]

History 1–2 (Sections)

Group [17]

Italian 1–2 (M T W Th F 9)
 Spanish 1–2 (Sections)
 Spanish 3–4 (Sections)
 Spanish 15–16 (Sections)

Group [18]

Economics 1–2 (Sections)

Group [19]

Chemistry 1–2
 Chemistry 1a–2a
 Italian 19, 20 (W 4–6)

Group [0]

There is no restriction on courses in this group. They may be taken together or with courses in other groups, provided there is no conflict in class hours. Group [0] includes courses which ordinarily do not have set examinations.

American Civilization 1, 2; 3, 4
 Botany 161, 162
 Chemistry 41b, 42b; 63, 64; 99; 107;
 108; 137, 138
 Economics 51, 52; 61, 62; 63, 64
 Education 3–4
 English A1–A2
 English A3, A4; D1, D2
 English 1, 2; 3, 4
 English 5, 6
 English 7, 8
 English 11, 12
 English 14; 15, 16
 English 20
 English 21–22; R21
 English 23, 24
 English 27, 28; 29, 30
 English 91, 92; 93, 94; 95, 96
 French 37–38
 French 39–40
 Geology 30
 German O1–O2
 German 9, 10
 Government 45, 46; 61, 62; 63, 64

Greek 19–20; 29–30
 History 45, 46; 51, 52
 Italian 23, 24
 Latin 19–20; 29–30
 Music 31a–32a
 Music 73–74
 Philosophy 63, 64; 65, 66
 Psychology 48; 108
 Religion 35, 36; 47–48
 Sociology 97, 98
 Spanish 5, 6; 5x, 6x
 Spanish 9–10; 11–12
 Spanish 29, 30; 31–32
 Zoology 61, 62; 72; 130

Courses for which examinations may be arranged later:

Anthropology 52
 Botany 159
 Italian 7, 8
 Music 41–42
 Recreational Leadership 1 or R1
 Religion: Consult Registrar's bulletin board for special schedule

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FORM OF BEQUEST

To Barnard College in the City of New York I give and bequeath
the sum of \$. for the uses and purposes
of said Corporation.

